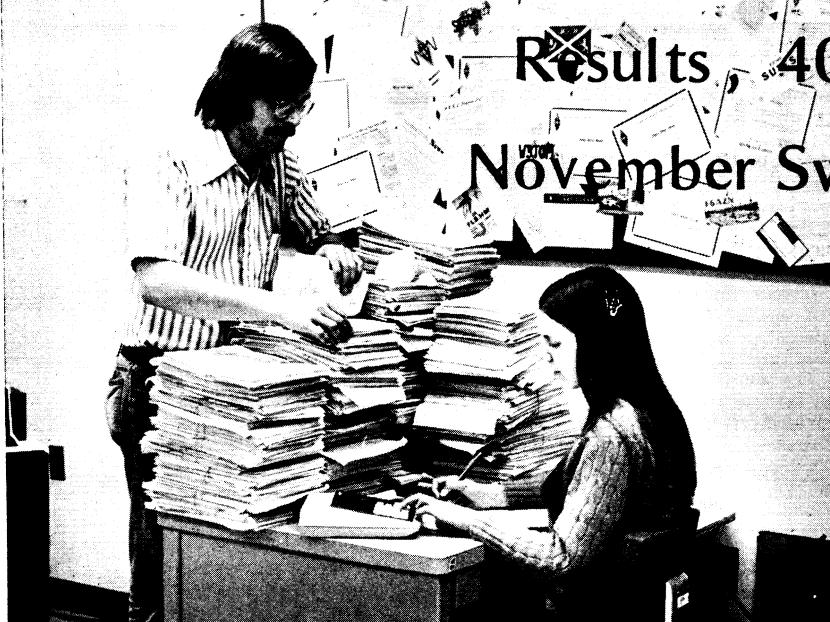


Results, 40th ARRL November Sweepstakes



REPORTED BY RICK NISWANDER,* WA1PID

Ever wonder what 2186 SS logs look like? The picture above should give you a good idea — representing all the 1973 November Sweepstakes logs. That's GAIL with your editor WA1PID. Your contest crew sorts, checks and dupes the 10,000 logs in various states of repair and disrepair that arrive each year reporting participation in various ARRL Competitions. Mentally multiply the above stack by 5 and try to visualize the pile of paper that we get each year — a stack over 30 feet tall.

THE 40th ARRL SWEEPSTAKES, held November 10-12 (phone) and 17-19 (cw), registered a log increase of over 5% to 2186 this year. Cw outnumbered phone entries by a paper-thin margin — 10,108 to 1080. Check logs numbered 20. An interesting statistic is entries per call area. In order of decreasing entries they are, 2, 7, 4, 8, 1, 6, Ø, 9, 3, 5 and VE. The strong showing in

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seven-land is due, to a great extent, to the efforts of the Radio Club of Tacoma and the Boeing Employees' Amateur Radio Society. These two groups do their best to turn Western Washington into a high signal-density area by getting just about every club member capable of transmitting a signal on the air for the SS to boost club totals. The number of Novice entries alone from these two groups surpasses many overall entries from other states. Great job.

This year Clean Sweeps increased on cw (from 16 to 25) but dropped on phone (from 102 to 75). The KZ5s and VE8s seemed to be out in force on both modes this year and W7LR made good on his promise to activate Wyoming both modes. FB, indeed!

Judging from comments received, Nebraska was hardest to find on cw. Hop up into the Novice bands, guys. In addition to making a few snappy exchanges you might have caught WNØGTJ who was back for a second try at this fracas. Hope to see you as a WB in the 1974 go around, Steve.

Eleven entries made the Clean Sweep on both modes this year — K3EST, K3WUW, W3ZKH, K4CG, WA4KJR, K4PJ, K4PQL, W6HX (WB6OLD, opr.), K7GWE (WA7GWL, opr.), W7RM (K7VPF, opr.) and W9LVT/6.

Hq. didn't sweep either mode this time around missing entries from VE4 on phone and VE4 and West indies on cw.

WA2GMD came up with a great idea for a new "award" — The Order of the Purple Ear, to be given out each year (by your scribe) to the person that does the most with the least. This one is for



TOP TEN
(Single Operator)

CW	PHONE
W7RM	163,800
W6MAR	157,950
W6PAA	157,875
W6HX	156,300
W3LPL	150,220
K1ZND	149,036
K6SDR	146,250
K4PUZ	145,632
K3EST	145,275
K5RLW	144,966
W7RM	233,025
W6HX	198,225
WB5DTX	195,300
W9YT	193,288
WA0CVS	189,727
K4VX	188,400
WB2OEU	185,775
WA7NIN	183,525
K1VTM	178,340
W3LPL	177,300

the little guy that puts up with a very large dose of Murphy or a garage door opener that operates in step with his keying, or is forced to use indoor center-fed hula hoops in phase . . . well, you get the picture. If next year things are quite a bit out of the ordinary at your SS setup, tell us why you think you should receive The Order of the Purple Ear. What have you got to lose?

The choice this year finally narrowed down to a few . . . K8IKO and W9PNE, with fine cw scores using under 5 watts . . . WA6QVA, whose howling German Shepherd tried to get in the act on phone . . . WA2CLQ, who used a SB-401 to a 70-foot end-fed wire inside an apartment building for 148 phone QSOs. All worthy of this great honor, to be sure. However, this year's winner is WB0GAX who sat in front of an Argonaut for 12 hours on phone and racked up 79 QSOs in 31 sections using a 10-foot high 60-foot end-fed wire for an antenna. That is devotion to the SS above and beyond the call of duty. WA2GMD gets an honorary Order of the Purple Ear award for suggesting the name.

Awards are scheduled for a May 15 mailing.

No matter how good or bad your station or operating abilities are — drop in on the SS this November. Why? Well, our resident philosopher, V.Y. Senny Tree, laid it on the line recently saying, "Woe to those who have not traveled the road of Sweepstakes and have not stared into the face of Murphy for they have not lived, and they shall be forced to eke out an existence without having experienced the joys and pitfalls of doing battle with the dragon."

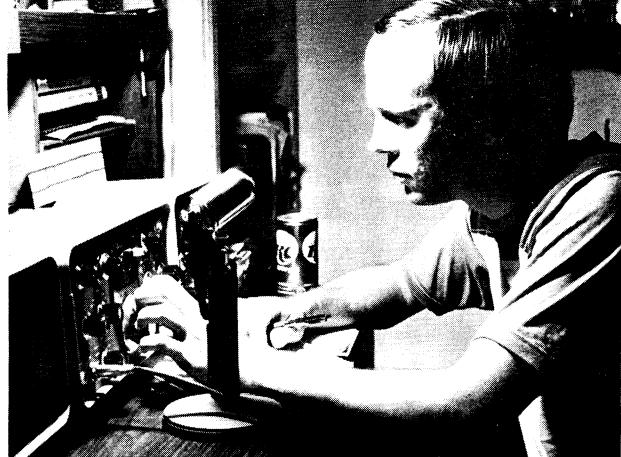
That's what he said.

SOAPBOX

Clicks

After working literally night and day getting my tower and antennas back up after moving to a new house, I was visited a number of times Saturday and Sunday by Murphy. He made the

Gads! Murphy is now motorized and able to roll at a moment's notice ready to fuel the fires of destruction. What are we poor contesters to do? Thanks to WA1LAI for bringing us this candid of the new Murphy.

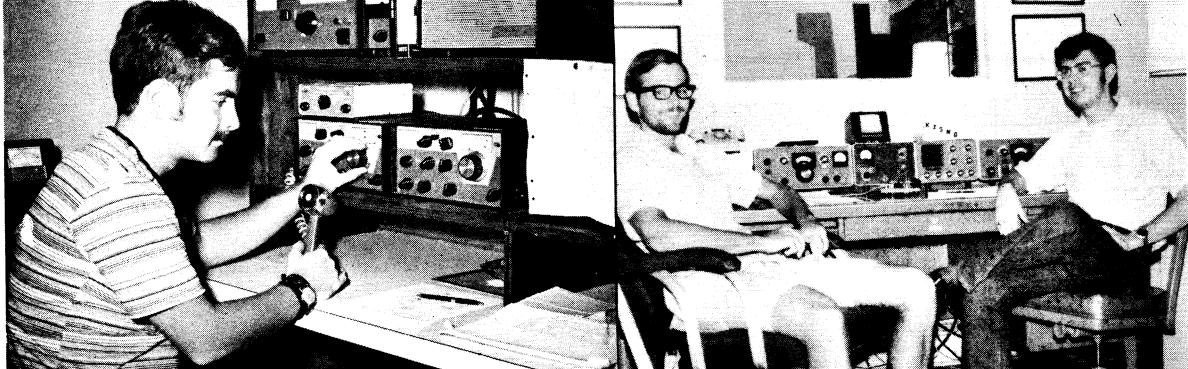


WB5FVT (STex) intently concentrating on a pileup.

scene as a finicky CQ machine, two power failures, TVI complaints and an oscillating amplifier — the darn thing forcing my first (but not last) unplanned break at two minutes into the contest. Looking forward to next year since it can't possibly be any worse than this one. — (W6MAR). At 08Z worked WB2AXV, VE3AXV and WB2AXY right in a row. Thought I was hearing things. — (WB2PYM). Now I'm really sorry I couldn't put in much time. I had no idea contests could be so much fun. — (WN2RKI). I had grand dreams of pileups from other SSing Novices but it never happened. I called CQ SS 'till my fingers fell off. Guess the QRM stateside was pretty bad. The big satisfaction of the whole thing was a Novice in Washington sending me a "far out" after I answered his CQ SS. — (KZSQRN). For all my contacts I used one single crystal at 7038. — (VE2BYR). Although the complete and utter bedlam of SS scared me off when I was as green a Novice as can be, I was hooked, and came back this year to give it a good try. — (VE7AKJ). My first SS contest but not my last. — (G3HLW/W3). Can't complain about my average QSO rate of one per hour for my last 6 QSOs since they were QSO numbers 70-75 in the same number of sections. — (W8DCH). Amazed at the many high-speed excellent operator Novices. You can really make good time in their sector. — (W3IN). My check of 22 brought requests for repeats. — (W3AXW). Wish I could have spent full time but the Redskins come first. — (K3WUW). Would have missed a clean sweep if I hadn't worked WN0GTJ who was expertly handing out Nebraska QSOs. — (W3ZKH). Operating from an apartment with a temporary antenna might hinder the score but doesn't take away the fun. —

(Continued on page 74)





Two of the rarer multipliers were well represented this year. Left: WB2JGD tuning around for a clear spot to start a pileup at KP4USN. Glenn was helped by WA1LHJ and WA2KUD in the 106K multiop phone effort. Right: WA1LWS (left) and WA4UAZ/KZ5BP operators of KZ5NG to the tune of 121K on phone. Hans (LWS) and Steve (UAZ) also made C.Z. a little less hard to come by on cw with a 77K effort. This shot was snapped by KZ5QRN who also got into the cw bash for a bit. Mega-thanks to both these groups for their aid to all us deserving SSSS (Sweepstakes Section Searchers).

DIVISION LEADERS

CW

<i>Single Op.</i>	<i>Multiop.</i>
W3LPL	K3GJD
W9YT	W9LT
WA0BWM	W0FTT
K4PUZ	...
K8MFO	WB8JBM/8
WA2UOO	W2SZ
K0GXR	W0QQQ
K1ZND	WA1KID
W7RM	K7RSC
W6PAA	W6BIP
K4VX	K4CFB
W0LBP	W0QEY
K4BAI	WB4MWC
W6MAR	WA6SFM
K5RLW	WA5RXT
VA7WJ	VE7UBC

PHONE

<i>Single Op.</i>	<i>Multiop.</i>
W3LPL	W3ZKH
W9YT	WB9IDS
WA0GQI	K0VVY
W5WMU	WA4TOA
W8DQL	W8EDU
WB2OEU	W2SZ
K0GXR	W0QQQ
K1VTM	W1FLM
W7RM	W7FO
WA7NIN	WB6OOL
K4VX	WA4KJR
WA0CVS	W7YB/7
WA4FFW	WB4TVU
W6HX	W6ONV
WB5DTX	WB5AXC
VA7WJ	VE3MCH

As you can see our club box has a different format this year. When I asked, last year, what the feeling was towards a listing by call area rather than the normal fashion I got a grand total of 3 letters — one against and 2 for. Not exactly an overwhelming response (but it does show that at least 3 other people read this material and take the time to respond). So, I figure, the best way to get a big response is to try it and see what the reaction is. Please, please let me know what you think. The method used to present the club box for the DX Test will be determined by your response.

This year the coco-bolo gavel goes to Murphy's Marauders — their first time on top of the stack — stopping a string of 9 consecutive SS gavels hauled in by this year's Avis team, PVRC.

Take a look down the listings to 7-land. Each year the RC of Tacoma and the BEARS really put on a show. It seems as though they get every club

member able to transmit on the air for SS. Just about all the scores are under 100K and most are below 25K. Each score adds up as you can see. Congrats to these two groups for their efforts and enthusiasm.

Phone

Murphy's Marauders	1	Murphy's Marauders
Potomac Valley RC	2	Potomac Valley RC
West Valley ARC	3	Wireless Inst. of the NE
Wireless Inst. of the NE	4	N. Cal. Contest Club
RC of Tacoma	5	West Valley ARC
N. Cal. Contest Club	6	BEARS
BEARS	7	Richardson Wireless Klub
Indy DXers	8	RC of Tacoma
Richardson Wireless Klub	9	Buffalo Area DXC
Texas DX Soc.	10	Canton ARC

CW

1 Murphy's Marauders	1 Murphy's Marauders
2 Potomac Valley RC	2 Potomac Valley RC
3 Wireless Inst. of the NE	3 Wireless Inst. of the NE
4 N. Cal. Contest Club	4 N. Cal. Contest Club
5 West Valley ARC	5 West Valley ARC
6 BEARS	6 BEARS
7 Richardson Wireless Klub	7 Richardson Wireless Klub
8 RC of Tacoma	8 RC of Tacoma
9 Buffalo Area DXC	9 Buffalo Area DXC
10 Canton ARC	10 Canton ARC



AFFILIATED CLUB SCORES

Club	Scores	Entries	Phone Winner	CW Winner
<i>One-Land</i>				
Murphy's Marauders(Ct.)	7,886,611	100	WB2OEU	K1ZND
Norwood Amateur Radio Club(Mass.)	639,219	26	WA1EOT	WA1EOT
Connecticut Wireless Association	558,555	13	W1BGD/2	W1ECH
Middlesex Amateur Radio Club(Mass.)	174,417	9	WA1RGW	WA1PAZ
Providence Radio Association(R.I.)	52,876	4	.....	.....
<i>Two-Land</i>				
Wireless Institute of the Northeast(N.J.)	2,331,850	41	WA2UOO	WA2UOO
Buffalo Area DX Club(N.Y.)	1,068,273	21	W2PDB	W2PDB
South Jersey Radio Association	893,084	27	WB2ELK	WA2BLV
Radio Society of Greater Brooklyn	349,910	10	WB2JSJ	WB2FLF
Gloucester County Amateur Radio Club(N.J.)	169,936	7	WA2NPD	WA2NPD
Mount Vernon High School Radio Club (N.Y.)	12,556	3	.....	.....
Lake Success Radio Club(N.Y.)	9,020	6	W2TUK	W2CZZ
<i>Three-Land</i>				
Nights of the Roundtable(Md.)	606,234	12	WA3LHG	WA3LJP
R.F. Hill Amateur Radio Club(Pa.)	393,873	8	K3AWZ	.....
Penn State Amateur Radio Club	298,830	4	.....	.....
Free State Amateur Radio Club(Md.)	175,850	10	K3TNM	WA3TDZ
ARINC Amateur Radio Club(Md.)	92,660	7	WA3JYV	W3TOS
Penn Wireless Assoc. of Windsor and Bucks Co. ARC	65,640	5	WA3NAF	.....
Pennsylvania Amateur Radio Club	65,496	6	.....	.....
<i>Four-Land</i>				
Potomac Valley Radio Club(Va.)	6,960,821	104	K4VX	W3LPL
Woodbridge Wireless Society(Va.)	283,815	9	.....	.....
Hollywood Amateur Radio Club(Fla.)	170,470	5	.....	W4OZF
Mid-South DX Association(Tenn.)	33,956	7	WA4EPF	K4MOJ
<i>Five-Land</i>				
Richardson Wireless Klub(Tex.)	1,209,056	14	WB5DTX	WA5JMK
Texas DX Society	915,424	12	K5RLW	K5RLW
Houston Amateur Radio Club	188,775	6	K5BSZ	K5BSZ
Arlington Radio Club(Tex.)	127,447	3	.....	.....
Rice University Amateur Radio Club(Tex.)	96,684	4	.....	.....
Dallas Amateur Radio Club	63,530	4	W5QGZ	.....
<i>Six-Land</i>				
West Valley Amateur Radio Club	2,064,211	22	W6HX	W6HX
Northern California Contest Club	1,808,239	22	WA7NIN	W6PAA
Northrop Radio Club	205,725	8	WA6LCV	W6VPZ
Electronics Museum ARC of Foothill College	150,944	8	.....	K6MF
Lockheed Employees' Radio Association	95,322	5	W6HJP	.....
Pasadena Radio Club	10,908	3	WB6ZGL	.....
<i>Seven-Land</i>				
Radio Club of Tacoma(Wash.)	1,629,153	86	W7RM	W7RM
Boeing Employees' Amateur Radio Society(Wash.)	1,459,133	81	W7VMF	W7VMF
West Seattle Amateur Radio Club(Wash.)	2720	3	.....	.....
<i>Eight-Land</i>				
Canton Amateur Radio Club(Ohio)	801,900	22	K8MFO	K8MFO
Case Amateur Radio Club(Ohio)	668,176	7	W8KIC	W8KIC
Saginaw Valley Amateur Radio Association(Mich.)	403,795	28	WB8IOT	K8BKF
Monroe County Radio Communications Association(Mich.)	128,186	5	.....	W8ROC
Muskegon Area Amateur Radio Council(Mich.)	56,508	9	W8QAO	.....
Springfield Amateur Radio Club(Ohio)	17,762	3	.....	.....
Parma Radio Club(Ohio)	12,353	3	.....	.....
<i>Nine-Land</i>				
Indy DXers(Ind.)	1,082,862	17	K9HDP	K9HDP
Wisconsin Valley Radio Association	603,792	22	W9RQM	W9RQM
Northwest Amateur Radio Club(Ill.)	276,350	5	.....	WB9GFC
Chicago Radio Traffic Association	99,220	7	WA9BLP	W9HPG
Ozaukee Radio Club(Wisc.)	46,075	4	WB9BGJ	.....
<i>Zero-Land</i>				
Johnson County Radio Amatuer Club(Kans.)	511,209	11	K0CVA	W0JT
Colorado Contest Conspiracy	340,235	4	WA0CVS	.....
Denver Radio Club(Colo.)	244,839	9	W0OUI	WB0GEX
Wichita Amateur Radio Club(Kans.)	167,588	5	.....	.....



WB5JJE (left) and WA5RXT teamed up to produce a 107K cw multiop effort from NTex.

(Continued from page 71)

(K8DCP/2). Next door neighbor's thermostat on her new furnace picked the proper weekend to start arcing. Fixed after the SS, of course. — (WA8YOQ). Almost forgot the whole thing but just had to get in a couple of hours. — (W8OM). Contacts don't come very fast when you're using 100 watts to a 160-meter inverted V. Maybe next year I'll have some antennas up in the air again. — (W6NJU). Will wonders never cease? Worked a KP4 on the 40 meter Novice band. — (WN8NTX). The sad thing about Murphy's strike this year was that I had never kept my rate so high for so long. — (K8RMK, opr. of W8KGE). My first SS and loved every minute of it. — (WB6TYA). Not getting any younger but maybe will be better prepared next November. — (W8APC). Started on 10 meters and worked a KH6 for my third contact in the contest and it was the first KH6 I ever worked. — (WB8JAY). Missed Maritime for a clean sweep. Did round up a VE1 on phone but couldn't get a cw contact out of him because he didn't know where his key was or how to use his rig on cw. — (WA1CQW, opr. of W1ZM). I've been reading about this Murphy fella now for 18 years. Finally met him five minutes after the gong went off. The keyer went snafu and couldn't find another key. Eleven hours later keyer finally back in shape. Murphy is a boor. — (K0CHE). Having a Novice in Nebraska answer a CQ and getting 2 VE8s to come back on 40, told me that my divine purpose was to make a Clean Sweep. — (WA2CNE, opr. of W1AF). 20 phone was bumper to bumper and 40 cw was creep and beep all the way. — (WA1LAI). The best QSO count in several years but also the lowest

QSO LEADERS

(Single Operator)

CW	PHONE
W7RM	1095
W6PAA	1055
W6MAR	1054
W6HX	1043
W3LPL	1015
K1ZND	1008
K4PUZ	985
K5RLW	980
K6SDR	978
K3EST	973
W7RM	1559
W6HX	1323
WB5DTX	1306
W9YT	1306
WA0CVS	1300
K4VX	1260
WB2OEU	1239
WA7NIN	1232
K1VTM	1205
W7SFA	1200

multiplier. Murphy's talents are unlimited. — (K6MP). What is this madness that inter-club contest bring out in one? Eighty crystal controlled watts and a regenerative receiver on 40 for 12 plus Sweepstakes hours, in retrospect, scarcely seems a sign of sanity. — (W6IRA). Thought I was a real OT until I worked K6AM using a check of 20. Mine is 26! — (W6ZT). Conditions really bad. Didn't hear many East Coast stations and couldn't seem to work stations which I could hear. This is my first year in Alaska and guess I have to get used to propagation from here. — (KL7HRP, ex-W3FP). QSO rate hindered slightly by Murphy's presence as a shorted low-pass filter. — (WA9SLU). Can I QSO myself to get Alabama? — (W8FAW/4). My father, W4MVM, has been a ham for 26 years and I have been a ham for 5 months. This was the first Sweepstakes for both of us. He operated phone and I operated cw and boy did we have fun! — (WN4FBA). First time I entered the SS. Not bad at all. — (K4PY). Worked W7WHY followed by W7WHO. — (W4OZF). One W4 insisted for 3 minutes that his section was Southeast. — (WB4DEL). This is the first contest I have participated in since the 1957 NR. I think I am now hooked. — (K2TTG). I know I'm not going to win any prizes with my score but operating in the contest was its own reward. — (WA2RZY). Murphy struck: by blessing me with a nose like a leaky faucet as the result of SS antenna work the

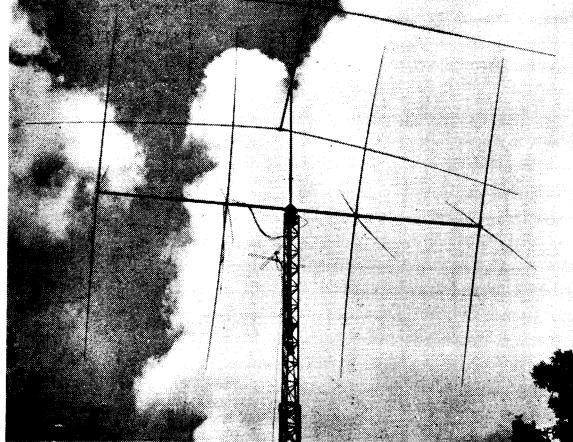
QRP CHAMPS

(200 Watts or Less at All Times)

CW	PHONE
WB2RJJ	111,024
W4OZF	106,416
K6SSJ	106,042
W1FCC/5	103,240
WB9GFC	102,240
K4DCD	92,087
W1DKU	90,528
WA0NVZ	85,610
W4YZC	83,250
W1ECH	81,792
K7JCA/6	153,825
WA6HWR	115,704
WA5WQF	102,150
WB4REN	98,974
WA2LCC/8	96,740
WB6HGJ	96,063
WB2RJJ	92,944
K3DVS	88,776
WB4FDT/5	86,768
WA9WUC	86,724



The Dynamic Duo from WNY, WA2BCK (left) and WA2MBP. The Brothers Nail made a pact allowing Tom (BCK) to operate phone while Jim (MBP) got cw. Tom made 106 kilopoints for 5th spot while Jim keyed his way to a 94K 4th place showing. Sir?



The antenna system of WB6VZI. The 4-element 20-10 quad is at 50 feet with a 2-element 40-meter beam at 65. Right: WB6VZI himself. Marty phonetically racked up 144K — good enough for 5th spot in the tough L.A. section. Marty is also President of the West Valley ARC.

morning before the contest. My rate of 6 QSOs per Kleenex has to be a record. — (WA2UOO). Saturday morning I woke up with a terrible toothache. Dec, WB2IWH, (D.D.S.) did an emergency extraction and I operated the contest without any pain. I've heard of QSOs being as tough to get as "pulling teeth" but this is ridiculous. — (WA2APG). By the way, nothing happened to me such as getting Alaska or Lower Mongolia like all the other contestants I read about. — (WN2SOU). If something else goes wrong with my VFO I'll never speak to it again. — (WB5FML). This was the first contest I have entered into and had little idea of what to expect. I soon found out that it doesn't pay to be shy, so I jumped in with both feet, naturally I got soaking wet. I had a very good time, but had to quit a few hours early because of a bad headache. — (WB0IMU). Entering the final stretch of the contest, we were surprised to work W7WHO. Two QSOs later we were asked the most relevant question of the contest by working W7WHY. For reasons that elude us, we missed contacting W7HOW. — (WB0QQQ). [We know how you missed HOW. However, the most salient questions here are why you worked WHY and who was operating at WHO? — ed.]

Splatter

This event was the single most exciting and fun operating I have ever done in spite of considerable QRM at times. — (WB4JGY). Operated with my writing arm in a cast. For the first time in my life I can honestly claim that I was working 'em faster than I could log 'em. — (WB4DEL). If I told you what kind of equipment failures I had, you wouldn't believe me so I won't bother. — (W3BQV). In the true contest spirit, my XYL delivered our new baby girl on Saturday morning so as not to interfere with the cw weekend. — (WA4KJR). I should get a handicap. During the windstorm day before the contest the wind broke one of the clamps on the mast to rotor mount and turned the beam 100 degrees. I operated for 2 hours off the side of my TH6DXX before I discovered my problem. — (W7YKN). I have decided that parents are Murphy's representatives here on Earth. — (WB0GAZ). How is it possible to work all of the 7th and 8th call areas, get NH, VT and CZ and miss NLI and SNJ? — (WA3PWL/8). [It takes practice. — Ed.] How come, when one takes so long to work a new section one's next two contacts are in that section? — (WA6SMS). Still can't believe I didn't get Quebec. — (W3GRW/VE2). Where were the VE's this year? —

CLEAN SWEEP CW

W1BPW	K4CG*	W9LVT/6
WA1NES	WA4KJR*	W6MAR
K3EST	K4PJ	W6PAA
K3GJD*	K4PQL	WA6PGB
K3WUW*	WB4TBO*	K6SDR
W3ZKH*	W4YZC	W8DCH
K4CFB*		W9RGB

W1AF (WA2CNE, opr.) K7GWE (WA7GWL, opr.)
W6HX (WB6OLD, opr.) W7RM (K7VPF, opr.)
W9YT (WA9TPV, opr.)

CLEAN SWEEP PHONE

WA1ABV/1	W3ZKH*	WB6OOL*
W1BIH	K4CG*	K6OZL
K1CSJ	K4EQA	W6YRA*
K1CPF	WB4JBS/4	K7NHV
K1DQV/1	WA4KJR*	WB8AYC
W1FBY	WB4MRI	WB8LPF
W1GQO	WB4OSS	K8MFO
K1JHX	K4PJ	WA8YWX
WA1KID*	K4PQL	WB9HAD
WA1MQO*	WB4TPU*	W9YH*
K1ZND	W4WSF	K0CVA
W2GUH	K5RLW	WA0CWH
WB2OEU	WA5RTG	W0GKE
WB2QYT	W5RTQ	WA0GQI
WA2UOO	WA5WQF	K0GXR
W2VDX*	K7JCA/6	WA0RKQ
K3AWZ	W9LVT/6	WA0TOA*
W3AZD	W6DSQ/6	K0UYN
K3WUW*	W6OKK*	KZ5NG*
K3ZAW	W6ONV*	VE3HUM

WA1JUY (WA1JYY, opr.) WB5DTX (WA3GBU, opr.)
W1ZM (WA1CQW, opr.) W6DGH (WB6ZVC, opr.)
W2AJR (WA2UWA, opr.) W6HX (WB6OLD, opr.)
W3EZT (WA3IAQ, opr.) K7GWE (WA7GWL, opr.)
W3LPL (WA3HRV, opr.) W7NIN (W6OAT, opr.)
W3YP (WB3DQG, opr.) W7RM (K7VPF, opr.)
K4VX (K3EST, opr.) K9IU (WB9DZS, opr.)

WB0BIY (WB0FGV, opr.)



This neat setup belongs to WN6SWM who happens to be the one twiddling the knob. Vince used a quad and a 40-meter dipole to garner 19K from his SJV QTH. Not bad for a 15-year-old.

(VE6MP). My first SS . . . weeeee! — (WA1PWF). My first serious effort at a phone contest. Not bad, but cw still tops. — (K1JYN). The one year I go to Vermont, half the world goes there too. — (WB2PWS/1). Some people ought to get more sleep. Last day of phone contest heard a K6 calling CQ Field Day. — (WA5WQF). My biggest problem was WA2EKW. — (WB2EKW). Murphy almost struck in the near loss of logs during move to new QTH. — (WB2VFT). Guess it's mind over matter. — (WA3PPH). I can understand missing Hawaii but missing ND 90 miles away was disheartening. — (K0CHE). This is the first SS I have entered and enjoyed it thoroughly. Was unable to enter the cw SS because was called out of town that weekend for Skylab 4 launch support. — (W5RTQ). Horses stamped through the antenna field and tore down the 80 meter quad. At least they waited until Sunday morning. — (WB8JBM/8). "A" all the way. — (WA2KUX). Murphy struck as though it was Field Day. — (WA3GUL). Seeing how I worked two KZ5s I would like one to apply to last year's SS so I'd have a sweep in '72 as well. — (K3AWZ). The way to prevent getting TVI reports during the Sunday football game is by watching the game yourself. — (K3WUW). Watching WB6DSV operate made me realize that I'm not the man I used to be . . . and what's more I never was. — (W6OKK). Extra class license came in handy for dropping below 3800 to catch Maritime section in closing minutes of contest. — (W9VBV). Again this year, as in past years during the phone SS, I was able to meet two of my "friendly" neighbors who were experiencing hi-fi interference. They called me and I came right over. Fortunately the second op was on duty and continued transmitting. Of course the neighbors were all apologetic realizing I couldn't be the culprit sitting in their living room and coming in on their hi-fi. I took along my never fail service kit and they could no longer hear that Chinaman saying Portugal. — (W6BIP). Had trouble giving my check of 73. Everyone thought I was saying best regards and would ask me to please repeat my check. — (WA3TZT). Wish I had a linear to keep my feet warm. — (WA9YEC). Operating in the SS makes it hard to keep my school grades up. — (WA3UEN). I almost had a disaster on my hands when WB9FVD tried to kick WN9IPU out of his sleeping bag at 3 Sunday morning. — (WB9IDS). The day before the contest, our 40-meter yagi, 50

feet above the U.C.L.A. Engineering Building, went sour on us. Luckily it must have fixed itself as we worked almost 400 contacts on that band alone. — (W6YRA). After having missed very few of the 40 SS contests, you'd think I would have had enough by now . . . not yet. — (K6MP). Had a good start but severe TVI problems suddenly cropped up Sunday and curtailed operations. — (WB6VZI). The beam froze on New Zealand so had to throw in the towel. — (WB6EXW, opr. of WA6GFY).

LED SECTION BOTH MODES

VE5XC	K5RLW
VA7WJ	WB6ION
W3DNY/VE8	W6HX
K1JYN	K6QPH
WB2OEU	W6PAA
WA2UOO	K7NHV
W3LPL*	WA7NIN
WA3BGE	W7RM
K4ZGB	W9DOB
WB4AEX	K9IU
K4VX*	W9YT*
WSWMU	K0GXR
	K0RPH

(Boldface = over 100K each mode)

*Different call or operator each mode.

NOVICE WINNERS

(Top Ten)

WN5GIV	.....	40,560
WN9LMT	.....	25,536
WN6OSS	.....	24,255
WN6OYV	.....	23,520
WN6UZD	.....	22,040
WN4DFL	.....	21,492
WN4CBZ	.....	21,224
WN9KSK	.....	20,750
WN0GTJ	.....	19,548
WN3UDV	.....	19,500

Other Winners — WN1QAW, WN1RFD, WN2NAE, WN2LVV, WN2IYY, WN3UTA, WN4BMM, WN6SWM, WN7VNI, WN8NTX, WN8MMF, WN0JFJ, KZ5QRN.

FORTIETH SWEEPSTAKES CONTEST

Scores are grouped by call area. Sections, within call areas, are broken down by power category. Example of listings: VE2AQP 31,260-262-60-19 or final score of 31,260, number of QSOs 262, number of sections 60, total operating time of 19 hours. Multi-operator stations are grouped in order of score following single-operator station listings in each section tabulation. An asterisk denotes a HQ staff member, ineligible for an award.

CW SCORES

VE
Quebec
 VE2AQP 31,260- 262-60-19
200 Watts or Less
 VE2AXW (WA2JAM, opr.) 42,076- 314-67-23
 VE2BYR 4352- 64-34- 7
Ontario
 VE3HUM 79,497- 545-73-24
 VE3ART/3 (VE3Es BRJ FBI GAS) 56,373- 498-57-19
200 Watts or Less
 VE3EHH 41,477- 354-59-15
 VE3ECA 41,030- 373-55-
 VE3GRC 19,740- 210-47-24
 VE3DH 18,762- 177-53-11
 VE3EEW 7708- 94-41-10

Saskatchewan

200 Watts or Less
 VESXC 42,438- 327-66-21
 VESTT 20,292- 178-57-13

Alberta

200 Watts or Less
 VE6ATT 25,707- 226-57-22

British Columbia

VA7WJ (VE7BDJ, opr.) 128,390- 870-74-24
 VE7TT 71,484- 518-69-22
 VE7UBC (VE6AXH VE7s AON BBQ) 73,368- 514-72-19
200 Watts or Less
 VE7AKJ 10,557- 104-51-10

Yukon-N.W.T.

W3DNY/VE8 10,120- 110-46-18

U.S.A.

I

Connecticut

K1ZND* 149,036-1008-74-24
 K1VTM 138,627- 951-73-24
 W1ZM (WA1CQW, opr.) 137,778- 932-74-24
 W1FBY* 135,196- 926-73-24
 W1PID* 128,464- 868-74-24
 K1KJH 122,840- 830-74-22
 W1FLM 113,643- 833-69-24
 K1DPB (W1GNC, opr.)* 96,696- 674-72-22

K1GUD

94,734- 651-73-19
 W1INNC 90,454- 637-71-24
 W1LLW 78,276- 593-66-24
 W1AINES 77,325- 516-75-18
 KIASJ 75,072- 546-69-21
 W1RML 74,270- 532-70-19
 W1AIMAO 68,510- 528-65-20

WA9AUM/* 67,730- 522-65-15
 KITHQ 46,494- 369-63- 9
 W1SG 43,400- 350-62-12
 W1RZG 41,358- 339-61-14
 W1GPK 38,186- 313-61-19
 W1A1NL 27,018- 237-57- 7
 WA1PTK (WN1QNF, opr.) 11,954- 139-43- 6

WB9FJT/* 10,105- 118-43- 3
 KIVIJ 8241- 101-41- 6
 W1TX 7728- 922-42- 5
 W1AJBN 300- 15-10- 3
 W1ASQB 260- 14-10- 2
 W1AKID (+W1ARR) 125,925- 864-73-24

(+WA1ABV)
 W1KOC (WA1ABV) 117,216- 792-74-24
200 Watts or Less

W1ECH 81,792- 576-71-23
 W1LNQ 65,868- 500-66-14
 W1BIH 53,321- 376-71-12
 W1IRFM 44,800- 350-64-23

W1ACR 37,088- 304-61-16
 K1MUI/J (WA1HYN, opr.) 34,800- 300-58-11
 W1FTX 27,600- 200-69-10
 W1HM 25,024- 196-64-15
 W1NRG/1 (WA1QME, opr.) 22,672- 218-52-16

W1FCM* 21,840- 210-52-10
 W1AAV 16,470- 154-54-20
 W1FFR 11,224- 122-46-12
 W1BDI 10,000- 100-50- 7
 W1RW* 5694- 73-39- 3

W1ADZR 972- 27-18- 3
 W1ISHX 704- 24-16- 8
 W1PHF (WB5CCT WA1ZUF) 20,696- 201-52-14

WNIYRL (+WNIUR) 3792- 79-24-11

Eastern Massachusetts

WA1RCP 127,942- 901-71-24
 W1NRV 122,832- 857-72-24
 WAIJUY (WA2LQZ, opr.) 120,700- 851-71-24

W1DAL 107,712- 748-72-22
 W1AF (WA2CNE, opr.) 105,450- 703-75-24

K1OME 105,266- 724-73-24
 W1EOT 73,500- 525-70-21
 K1HHN 62,016- 456-68-19

WA1OLP 56,984- 419-68-17
 W1RBR (WA2LQZ, opr.) 53,820- 414-65-10

W1AX 42,000- 300-70- 7
 K1CPF 41,216- 368-56- 7
 WA1RBO (WA1ZUC, opr.) 12,691- 130-49- 4

W1PLJ 11,280- 120-47-11
 W1AMHJ 9870- 118-42- 4
 W1PL 8320- 104-40- 4

200 Watts or Less

W1FNW 75,544- 532-71-24
 W1AINRT 61,248- 479-64-22

W1GXV 41,359- 351-59-22
 W1AOAP 41,114- 337-61-16

W1APIAZ 31,407- 278-57-15
 W1AMXV 25,850- 235-55-10

W1A1OSJ 23,296- 209-56-16
 W1AJKZ 14,784- 168-44- 4

W1AJYY 12,600- 140-45- 5
 W1N1RFD 11,700- 150-39-16

W1ARFF 10,780- 156-35-14
 W1ALAI 9594- 117-41-11
 K1HRV 9072- 108-42-10

W1AMSK 7800- 130-30- 6
 W1AQKQ 7788- 118-33- 9

W1OJP 6438- 87-37-
 W1NRJ 5936- 106-28-22

W1A0ML 5725- 115-25- 5
 DL2AA/W1 2378- 41-29- 4

W1NRZN 900- 30-15-14
 W1NPUI 324- 18- 9- 6

W1BET 2- 1- 1- 1

Maine

200 Watts or Less

K1MTJ 29,913- 255-60-13
 W1OQ 18,666- 183-51-14

New Hampshire

W1BPW 144,450- 968-75-24
 W1DXB 32,488- 262-6- 9

200 Watts or Less

W1A0DG 30,636- 335-46-20
 W1ALNH 14,276- 166-43-10

W1A1MZV/1 13,905- 155-45-14
 WN1RG (WNIURG) 6806- 83-41- 6

Rhode Island

K1JYN 123,876- 837-74-24
 K1LP/A/1 55,580- 397-70-
 W1ACVF/1 51,389- 385-67-22

200 Watts or Less

W1IQOG 37,300- 373-50-21
 K1QFD 21,632- 169-64- 9

W1NIQAW 19,186- 181-53-20
 W1RFQ 10,752- 112-48- 9
 W1A1RFT 2352- 49-24- 5

Vermont

W1MUG/1 (WB2DRW, opr.) 103,660- 732-71-22

W3KE/I 17,100- 190-45-12
200 Watts or Less

W1DGL/1 75,474- 600-63-23
Western Massachusetts

W1EZD 79,520- 568-70-20
200 Watts or Less

W1DKU 90,528- 656-69-24
 W1AMJE 58,890- 453-65-19

W1LPT 40,066- 299-67-21
 W1PBF 22,900- 229-50-11

W1NROY 585- 27-13-14
 W1FKF 2- 1- 1- 1

2

Eastern New York

WB2OEU 109,584- 761-72-24
 WA2AEH 108,850- 779-70-24
 K2MME 86,768- 638-68-20

W2AZO 74,250- 565-66-20
 K2DW 65,459- 490-67-24

W1BGD/2 16,848- 157-54- 3
 W2SZ (WA2s EUX FBI WB2FWQ S. Charlamb) 110,600- 790-70-24

200 Watts or Less

WA2TUJ 66,688- 522-64-24
 WA2HAI 62,020- 444-70-23
 WA2CLQ 46,746- 373-63-23

W2NAE 16,632- 190-44-22
 WA2MTZ 15,700- 155-50-12

WA2ROH 15,435- 158-49-15
 K2GSF 14,602- 149-49-11

WN3UHH/2 13,104- 157-42-21
 WB2EBP 12,096- 144-42- 8

WN2PNQ 10,179- 143-39-16
 K2TTG 8232- 98-42-17

WN2GSW 3278- 75-22- 8
 WN2EHE 2760- 60-23- 6

WB2ZCM 2576- 56-23-13
 WB2EV 1950- 40-25- 2

WB2FUH 1820- 46-20- 3
 WN2TEO 1600- 40-20- 6

WN2LNA 756- 28-14- 5
 WN2RK1 594- 27-11- 5

WN2QHL 506- 23-11- 9
 WN2PBX 85- 9- 5- 9

N.Y.C.-L.I.

K2AU 117,808- 802-74-24
 W2FVS 104,171- 715-73-23
 W2AJR (WA2UWA, opr.) 103,806- 711-73-24

WB2MZU 56,034- 429-66-19
 K2KD 45,511- 321-71-19

K2HK 44,770- 303-74-14
 WA2GMD 2928- 62-24- 9

WA2VLK 780- 30-13- 1
 W2TUK 200- 10-10- 1

200 Watts or Less

WB2FLF 60,032- 448-67-19
 W2FYG 41,472- 324-64-19

WB2EHM 40,068- 320-63-20
 WB2BXO 32,984- 268-62-18

WB2EZG 32,754- 313-53-17
 WB2PYM 29,700- 279-54-20

WA2DLV 28,885- 273-53-15
 WA2CLB 27,540- 270-51-12

W2IJJ 26,880- 243-56-12
 WB2KLF 26,432- 236-56-14

WB2GXW 20,952- 195-54-20
 WB2LYB 20,352- 212-48- 5

WN2LV 18,816- 196-48-12
 WB2HES 8544- 135-32-18

W2IBJ 5292- 99-27-12
 W2RZY 4669- 81-29-17

WC2ZZ 3906- 63-31- 6
 WN2JRY 1926- 54-18-15

W2APL 1760- 40-22- 2
 W2TN1 1020- 30-17- 7

WB2UFG 832- 26-16- 1
 WB2CHY 700- 25-14- 2

W2HBO 360- 15-12-
 WB2WFJ 4- 2- 1- 1

WB2DWO (+WB2NEL) 2150- 43-25- 5

200 Watts or Less

WB2FNS 70,886- 529-67-24
 WB2BHP 57,152- 451-64-24

WB2ADW 51,300- 451-57-24
 WA2DRC 41,354- 358-58-18

WB2ABD 36,855- 284-65-13
 W2TFL 33,000- 300-55-17

WB2QXA 29,640- 248-60-19
 WA2BAO 25,742- 211-61-15

WB2JRX 23,250- 233-50-22
 WA2DMK 19,855- 181-55-12

WA2AOG 16,932- 166-51- 6

WB2SBI 16,800- 140-60-12
 WB2EXL 16,600- 166-50-20

WA2FQE 8560- 109-40-24
 K2UAN 3120- 60-26- 7

W2ECW 1120- 35-16- 9
 WN2RXL 954- 27-18-11

WN2LEG 525- 18-15- 5

WA2EUO 115,200- 800-72-24
 WA2SZQ 91,944- 643-72-22

WA2DNY 78,012- 591-66-22
 W2SHM 76,296- 578-66-24

WA2SHR 45,370- 349-65-11
200 Watts or Less

WB2RJJ 111,024- 771-72-24
 WA2MYZ 42,952- 364-59-21
 WA2DFC 42,160- 310-68-14

WB2CST 38,200- 382-50-22
 WA2GAX 31,130- 283-55-18

WA2APG 30,392- 262-58-10
 WA2NTI 19,900- 199-50-13

W2HCA 16,154- 198-41-17
 W2DYS 12,364- 141-44-14
 WA2WBE 12,070- 85-71-17

WN2IYY 11,100- 150-37-14
 W2HR 10,742- 132-41- 9

WA2EXX 10,676- 157-34-6
 WN2LGU 6902- 119-29-16

WA2ONH 4200- 70-30-16
 WA2SHT 1440- 36-20- 1

WN2SOU 385- 18-11- 3
 WB2ZLI 384- 16-12- 1

WB2VFT 160- 10- 8- 1
 WB2AXY (+WB2SH)

52,200- 450-58-13

Southern New Jersey

WB2QBF 110,852- 749-74-24

W2REH 102,324- 701-73-19

WA2BLV 74,130- 530-70-16

K2JOC 72,795- 530-69-24

W2PAU 70,216- 527-67-20

W2ESX 59,520- 465-64-23

WA2TRK 37,878- 321-59-13

WA2NPD 32,332- 274-59-13

W2REB 19,296- 201-48-12

W2FIF 19,080- 180-53- 7

W2UI 2912- 52-28- 3

W2LWO 1768- 34-26- 3

W2FGY 360- 15-12- 6

K2IT (W2s EA GEY ORA PSY WB2BKV)

62,376- 452-69-24

200 Watts or Less

K8DCP/2 37,791- 334-57-16

WB2IF 27,242- 259-53-17

W2LYL 22,360- 215-52-13

W2ZO (WA2GMH, opr.) 15,600- 150-52- 8

K3MNT/2 7488- 104-36- 3

WB2TEN 3000- 60-25- 1

K2HPV 1110- 37-15- 7

WN2ERU (+WN2s IBV MTX)

5985- 86-35-

Western New York

W2CXM (WA1LKX, opr.) 125,670- 885-71-24

W2GUH 114,192- 793-72-24

W2PDB (WB2PGM, opr.) 96,360- 660-73-24

WA2MBP 94,032- 653-72-23

WA2MPC 83,697- 609-69-20

W2FXA 73,292- 502-73-18

WA2DHG 35,490- 273-65-15

WA2BCK 26,230- 215-61- 7

WB2GGM 23,064- 187-62-18

WA2BEX 20,412- 189-54- 6

WB2AIO/2 7714- 133-29- 2

WA2RFR (+WB2EQR) 50,830- 391-65-24

WB2FNS 70,886- 529-67-24

WB2BHP 57,152- 451-64-24

WA2ADW 51,300- 451-57-24

WA2DRC

Delaware	W3OWE 24,221- 230-53-18 <i>200 Watts or Less</i>	W3KA 12,212- 142-43-10 W3RJS 10,678- 141-38- 5 W3ABC 7200- 100-36- K3TNN 5372- 79-34-14 WN3SOR 4959- 87-29- 8 WA3IYS/3 37-25- 8 WN3VGV 4080- 86-26- 4 K3IMC 3000- 50-30- 5 WN3UHO 2800- 50-28-14 WN3UXZ 2500- 50-25- 9 WA3NQJ 2464- 56-22- 2 WN3UOP 1886- 45-23-16 W3HFO 1850- 37-25- 5 WN3UUM 1482- 39-19- 9 W3KS 1368- 36-19- 2 W3HH 330- 15-11- 1 WB4USO/3 60- 6- 5- 1 WA3TZT (+WA3QZW) 30,933- 246-63-24	WA4JHD 21,725- 201-55-13 WB4IUX 3100- 50-31- 3 W4PED 2900- 50-29- 4	K4KA 50,954- 349-73-15 WB4URW 48,438- 351-69-12 W4GF 40,300- 325-62-11 W4LDF 24,550- 246-50- 7 WB4FLT 22,200- 185-60-16 W4IML 20,984- 172-61-20 WIFRF/4 13,200- 150-44-11 WN4BMN 10,280- 129-40-13 K3OZM/4 10,080- 106-48-13 W4ZC 9072- 108-42- 5 WN4EJJ 7328- 115-32-19 WN4EXP 3886- 68-29-22 WB4OGW 60,340- 431-70-20 W4PZV (WA4SVO, opr.) 60,130- 431-70-18 WB4DFV 26,264- 236-56-20 WB4UNV 4230- 71-30- 3 WA4CKI 1872- 39-24- 5	200 Watts or Less			
Eastern Pennsylvania	W3YP (W3DQG, opr.) 105,524- 713-74-24 K3DPQ 85,626- 603-71-23 W3JSX 76,866- 557-69-23 K3ANA 72,150- 555-65-15 WA3KZQ 69,966- 507-69-21 WA3JYB 63,770- 458-70-21 WA3ADE 51,404- 362-71-20 G3HLW/W3 40,960- 320-64-20 WA3NAF 26,288- 248-53- WA3NVZ 8960- 112-40-15 W3FRY (K3DZB WA3LNM) 86,564- 637-68- WA3RCA (WA3TMB WN3SDZ R. Sahlander) 21,450- 223-49-20 200 Watts or Less	WA3BGE 82,544- 616-67-17 WA3SES 2760- 46-30- 8 K3CR (WA2QNT WA3s JIH QQR VJZ) 81,282- 589-69-25 200 Watts or Less	WB4OZF 106,416- 742-72-22 WB4NDF 21,492- 200-54-16 WN4CBZ 21,224- 193-56-23 W4ZTB 12,954- 127-51-17 WB4FLW 9282- 111-42- 4 WN4FVS 5624- 76-37-24 WB4BPJ 1584- 41-22-12 WB4NTH 98- 8- 7- 2 WA4BTR (+WA4S BTQ GAJ WN4FXL S. Reichgott) 25,175- 238-53-24 K4GFG/4 (+W4RA0 WA4CSQ WB4FCT W9ACSA) 10,086- 125-41-13	K4KA 50,954- 349-73-15 WB4URW 48,438- 351-69-12 W4GF 40,300- 325-62-11 W4LDF 24,550- 246-50- 7 WB4FLT 22,200- 185-60-16 W4IML 20,984- 172-61-20 WIFRF/4 13,200- 150-44-11 WN4BMN 10,280- 129-40-13 K3OZM/4 10,080- 106-48-13 W4ZC 9072- 108-42- 5 WN4EJJ 7328- 115-32-19 WN4EXP 3886- 68-29-22 WB4OGW 60,340- 431-70-20 W4PZV (WA4SVO, opr.) 60,130- 431-70-18 WB4DFV 26,264- 236-56-20 WB4UNV 4230- 71-30- 3 WA4CKI 1872- 39-24- 5	200 Watts or Less			
	WA3HAE 81,721- 576-71-23 W3ARK 56,700- 450-63-18 WA3SQB 47,302- 353-67-17 WN3UDV 19,500- 195-50-18 WA3ABN 12,032- 128-47-13 WA3RHX 5032- 74-34- 8 K3OIO 4608- 72-32- 2 WA3SXU 3074- 56-29- 8 WA3MVP 3024- 57-27-11 WN3VDQ 2128- 56-19- 4 K3HNP 1292- 38-17- WA3KVN/3 1140- 30-19- WA3JTG 912- 25-19-10 W3QS 140- 10- 7- 3 WA3OVH 120- 10- 6- 1 WN3UXM 30- 5- 3- 2	WA3BGE 82,544- 616-67-17 WA3SES 2760- 46-30- 8 K3CR (WA2QNT WA3s JIH QQR VJZ) 81,282- 589-69-25 200 Watts or Less	K4ZGB 36,462- 309-59-19 K4JK 2- 1- 1- 1	K4PUZ 145,632- 985-74-18 K4PJ 89,625- 602-75-18 K4SXD/4 68,000- 500-68-14	K4PUZ 145,632- 985-74-18 K4PJ 89,625- 602-75-18 K4SXD/4 68,000- 500-68-14	Tennessee		
	Maryland	WB4ADT 35,574- 270-66- 9 WB4ZKX 19,872- 207-48-15 W8FWA/4 13,462- 127-53- WB4ZOF 10,032- 133-38-16 WN4FBA 2800- 50-28- 8	WB4ADT 35,574- 270-66- 9 WB4ZKX 19,872- 207-48-15 W8FWA/4 13,462- 127-53- WB4ZOF 10,032- 133-38-16 WN4FBA 2800- 50-28- 8	K4CD 92,087- 651-71-24 WB4BTK 38,400- 302-64-20 K4YFC 20,950- 210-50-11 WN4AYX 14,362- 172-43-19 K4MOJ 552- 23-12- 1 WA4FDR 40- 5- 4- 1 K4HPP 2- 1- 1- 1	K4CD 92,087- 651-71-24 WB4BTK 38,400- 302-64-20 K4YFC 20,950- 210-50-11 WN4AYX 14,362- 172-43-19 K4MOJ 552- 23-12- 1 WA4FDR 40- 5- 4- 1 K4HPP 2- 1- 1- 1	200 Watts or Less		
	Georgia	WB4MWC (+WB4UH) 69,479- 520-67-24	WB4MWC (+WB4UH) 69,479- 520-67-24	K4VX (WA3IAVQ, opr.) 128,261- 887-73-24	K4VX (WA3IAVQ, opr.) 128,261- 887-73-24	Virginia		
	W3IN 123,881- 849-73-24 K3OAE 107,670- 728-74-24 WA3LJP (WA3QIA, opr.) 98,928- 687-72-21 W3GRF 96,460- 689-70-18 K3NPV 89,244- 608-74-17 W3FA 75,348- 546-69-20 W3DBT 74,712- 566-66- W3MFJ 72,562- 511-71-19 WA3LHG 66,216- 534-62-20 WA3AFQ 63,000- 500-63-12 W3YXW (WA3RRE, opr.) 62,832- 462-68-22 W3TOS 58,212- 441-66-18 WA3EPT (WB2UZU, opr.) 45,600- 400-57-10 W3GN 44,392- 358-62-10 K3CKT 38,976- 305-64- WA3NYU 38,704- 328-59- 8 W3HVM 30,208- 236-64-11 W3CSZ 29,312- 229-64- 7 W3AXW 26,752- 209-64- 7 K3AV 25,074- 199-63-12 W3CWC (WA3EQO, opr.) 21,112- 203-52- 9 WA3OEJ 19,224- 179-54-13 WA3AMH/3 13,294- 145-46- 8 W3FCI 6586- 89-37- 6 W3BQV/3 1122- 33-17- 1 W3ZSR 180- 10- 9- 1 W3RIL 2- 1- 1- 1 K3GJD (+K3CUW) 108,750- 726-75-24 K3WUW (+2 meter net) 103,350- 689-75-21 W3ZKH (+2 meter net) 100,500- 670-75-23 200 Watts or Less	K4FJU 78,986- 542-73-17 K4QW 74,865- 544-69- WB4WCM 61,880- 455-68-17 K4HFD 29,928- 270-58-17 WA4SKP 25,251- 224-57-15 W4RIW 14,304- 149-48-16	K4FJU 78,986- 542-73-17 K4QW 74,865- 544-69- WB4WCM 61,880- 455-68-17 K4HFD 29,928- 270-58-17 WA4SKP 25,251- 224-57-15 W4RIW 14,304- 149-48-16	K4ZBM 52,528- 393-67-23 K4JQ 50,226- 382-66-20 WB4SMZ 44,226- 351-63-20 WB4FFZ 37,524- 318-59-19 WB4OUF 23,244- 233-52-18 W4GXW 4712- 76-31- 5	K4ZBM 52,528- 393-67-23 K4JQ 50,226- 382-66-20 WB4SMZ 44,226- 351-63-20 WB4FFZ 37,524- 318-59-19 WB4OUF 23,244- 233-52-18 W4GXW 4712- 76-31- 5	K4VX (WA3IAVQ, opr.) 113,769- 209-71-18	K4VX (WA3IAVQ, opr.) 113,769- 209-71-18	Northern Texas
	North Carolina	K4EQA 116,143- 799-73-24 WA4FFF 95,760- 666-72-22 K4CAX 37,178- 322-58-10	K4EQA 116,143- 799-73-24 WA4FFF 95,760- 666-72-22 K4CAX 37,178- 322-58-10	K4ZBM 52,528- 393-67-23 K4JQ 50,226- 382-66-20 WB4SMZ 44,226- 351-63-20 WB4FFZ 37,524- 318-59-19 WB4OUF 23,244- 233-52-18 W4GXW 4712- 76-31- 5	K4ZBM 52,528- 393-67-23 K4JQ 50,226- 382-66-20 WB4SMZ 44,226- 351-63-20 WB4FFZ 37,524- 318-59-19 WB4OUF 23,244- 233-52-18 W4GXW 4712- 76-31- 5	K4VX (WA3IAVQ, opr.) 113,769- 209-71-18	K4VX (WA3IAVQ, opr.) 113,769- 209-71-18	Northern Texas
	K4FOB 73,775- 570-65-24 W4NQA/4 52,800- 400-66-12 WA4DXM 36,844- 302-61-20 K4EZH 11,040- 120-46- 7 WA4BIB 10,120- 110-46- 7 K4FTB 2970- 45-33- 4	K4FOB 73,775- 570-65-24 W4NQA/4 52,800- 400-66-12 WA4DXM 36,844- 302-61-20 K4EZH 11,040- 120-46- 7 WA4BIB 10,120- 110-46- 7 K4FTB 2970- 45-33- 4	K4EZA 33,024- 258-65- 9 K4ETM/4 32,886- 261-63-16 W4KXV 29,000- 250-58-8 K4GMH 27,438- 269-51-14 WB4TEL 25,500- 250-51-15 W4YHD 23,084- 199-58- 5 WB4HQE 10,508- 146-37- 5 W4PNK 3400- 68-25- 2 K4EJG 2436- 44-28- 6 K4CFB (+2 meter net) 105,150- 701-75-24	K4EZA 33,024- 258-65- 9 K4ETM/4 32,886- 261-63-16 W4KXV 29,000- 250-58-8 K4GMH 27,438- 269-51-14 WB4TEL 25,500- 250-51-15 W4YHD 23,084- 199-58- 5 WB4HQE 10,508- 146-37- 5 W4PNK 3400- 68-25- 2 K4EJG 2436- 44-28- 6 K4CFB (+2 meter net) 105,150- 701-75-24	K4CFB (+2 meter net) 105,150- 701-75-23 WA4KJR (+2 meter net) 102,450- 685-75-23	K4CFB (+2 meter net) 105,150- 701-75-23 WA4KJR (+2 meter net) 102,450- 685-75-23	200 Watts or Less	
	Northern Florida	K4VFY 101,232- 703-72-24 W4YUU 97,648- 718-68-20	K4VFY 101,232- 703-72-24 W4YUU 97,648- 718-68-20	K4CG 86,400- 576-75-20 K4LDR (+KH6BIQ) 82,872- 576-72-20 WB4RDV (+KH6BIQ) 46,482- 383-61-23	K4CG 86,400- 576-75-20 K4LDR (+KH6BIQ) 82,872- 576-72-20 WB4RDV (+KH6BIQ) 46,482- 383-61-23	K4EBY (+2 meter net) 16,300- 164-50-15 W4YZC 83,250- 555-75-19 WB4SGV 60,354- 479-63-16 K4GKD 56,800- 400-71-15	K4EBY (+2 meter net) 16,300- 164-50-15 W4YZC 83,250- 555-75-19 WB4SGV 60,354- 479-63-16 K4GKD 56,800- 400-71-15	200 Watts or Less
	South Carolina	K4FJC 95,046- 651-73-19		W4NQJ 88,550- 644-70-24 K4CG (WA8RGJ, opr. + 2 meter net) 86,400- 576-75-20 K4LDR (+KH6BIQ) 82,872- 576-72-20 WB4RDV (+KH6BIQ) 46,482- 383-61-23	W4NQJ 88,550- 644-70-24 K4CG (WA8RGJ, opr. + 2 meter net) 86,400- 576-75-20 K4LDR (+KH6BIQ) 82,872- 576-72-20 WB4RDV (+KH6BIQ) 46,482- 383-61-23	200 Watts or Less		
	Southern Texas			K4EBY (+2 meter net) 16,300- 164-50-15 W4YZC 83,250- 555-75-19 WB4SGV 60,354- 479-63-16 K4GKD 56,800- 400-71-15	W4NQJ 88,550- 644-70-24 K4CG (WA8RGJ, opr. + 2 meter net) 86,400- 576-75-20 K4LDR (+KH6BIQ) 82,872- 576-72-20 WB4RDV (+KH6BIQ) 46,482- 383-61-23	200 Watts or Less		
	K5RLW 144,966- 980-74-24 WASZNY 136,364- 934-73-24 KSBSZ 84,348- 595-71-18 WBSIZN 63,988- 471-68- 9 WASQPA 42,944- 352-61- WASLES 4928- 77-32- 1 WSYQ (WB5IOG WN6UQN) 13,754- 150-46-12	K5RLW 144,966- 980-74-24 WASZNY 136,364- 934-73-24 KSBSZ 84,348- 595-71-18 WBSIZN 63,988- 471-68- 9 WASQPA 42,944- 352-61- WASLES 4928- 77-32- 1 WSYQ (WB5IOG WN6UQN) 13,754- 150-46-12	200 Watts or Less					
	Arkansas	W5RJY 50,180- 390-65-24 WBSEBC 34,384- 307-56- 9 KSPXV 10,764- 117-46-12 WSSOD 4012- 59-34-12 WASFTP/5 6- 3- 1- 1	W5RJY 50,180- 390-65-24 WBSEBC 34,384- 307-56- 9 KSPXV 10,764- 117-46-12 WSSOD 4012- 59-34-12 WASFTP/5 6- 3- 1- 1	200 Watts or Less				
	Louisiana	W5QJX 103,600- 709-74-24 WB5FML 27,904- 218-64-16 WB5BNV 9840- 121-41-20 W4OGG/5 9200- 100-46- 6	W5QJX 103,600- 709-74-24 WB5FML 27,904- 218-64-16 WB5BNV 9840- 121-41-20 W4OGG/5 9200- 100-46- 6	200 Watts or Less				
	Mississippi	W5RUB 44,764- 361-62- 8	W5RUB 44,764- 361-62- 8	200 Watts or Less				
	New Mexico	W5QJX 103,600- 709-74-24 WB5AXC (WA5MHR WB5ICK WN51YU) 29,982- 265-57-13	W5QJX 103,600- 709-74-24 WB5AXC (WA5MHR WB5ICK WN51YU) 29,982- 265-57-13	200 Watts or Less				
	Arkansas	W5RJY 50,180- 390-65-24 WBSEBC 34,384- 307-56- 9 KSPXV 10,764- 117-46-12 WSSOD 4012- 59-34-12 WASFTP/5 6- 3- 1- 1	W5RJY 50,180- 390-65-24 WBSEBC 34,384- 307-56- 9 KSPXV 10,764- 117-46-12 WSSOD 4012- 59-34-12 WASFTP/5 6- 3- 1- 1	200 Watts or Less				
	Louisiana	W5QJX 103,600- 709-74-24 WB5FML 27,904- 218-64-16 WB5BNV 9840- 121-41-20 W4OGG/5 9200- 100-46- 6	W5QJX 103,600- 709-74-24 WB5FML 27,904- 218-64-16 WB5BNV 9840- 121-41-20 W4OGG/5 9200- 100-46- 6	200 Watts or Less				
	Mississippi	W5RUB 44,764- 361-62- 8	W5RUB 44,764- 361-62- 8	200 Watts or Less				
	New Mexico	W5QJX 103,600- 709-74-24 WB5AXC (WA5MHR WB5ICK WN51YU) 29,982- 265-57-13	W5QJX 103,600- 709-74-24 WB5AXC (WA5MHR WB5ICK WN51YU) 29,982- 265-57-13	200 Watts or Less				
	Arkansas							

W5WT/5 21,576- 174-62- 9
 W5OJB 17,856- 187-48- 5
 WB5JEA 10,080- 120-42-10
 WASRLL/5 11,90- 35-17- 3
 K5PFL 144- 9- 8- 2
 WA7RQP/5 2- 1- 1- 1
 WB4FDT/5 (+WA9MWF) 18,564- 179-52-
 Canal Zone

KZ5NG (WA1LWS WA4UAZ)
 77,106- 546-71-18
 200 Watts or Less
 KZ5QRN 4455- 71-33-12

6

East Bay
 WB6ION 84,672- 588-72-22
 WB6BBC 58,838- 403-73-22
 K6BXI 37,895- 293-65-20
 W6RQZ 23,826- 209-57-15
 K6PQJ 19,278- 153-63-12
 K6HIIH 12,096- 126-48- 9
 W6KG (+W6DOD) 23,432- 202-58-13

200 Watts or Less
 W6BB (WB6CEP, opr.) 57,822- 419-69-24
 W6MSB 39,742- 322-62-24
 WB6PLJ 14,872- 143-52-14

Los Angeles

W6HX (WB6OLD, opr.) 156,300-1043-75-24
 W9LVT/6 130,875- 880-75-24
 W6DGH (WB6ZVC, opr.) 104,266- 706-74-20

K6OVJ/6 102,948- 751-69-19
 K6MP 101,660- 749-68-22
 K6VNX 80,928- 563-72-20
 WA6TXE (K6ZTV, opr.) 54,040- 386-70-22

W6DOX 52,796- 395-67- 8
 W6EOQ 46,464- 366-64-18
 W6VPZ (W6NYB, opr.) 42,908- 316-68-15
 K5MHG/6 6912- 98-36- 9
 W6YRA (WB6GJO WA7DAC) 5846- 80-37- 2

200 Watts or Less

WA6TLV 79,875- 565-71-24
 WB6KPN 70,210- 502-70-21
 W6DAB 47,916- 363-66-16
 WA6SQD 39,936- 312-64-23
 WN6OYV 23,520- 210-56-
 WB6RUN 23,280- 195-60-20
 WN6UZD 20,040- 190-58-
 WA6VUD 20,880- 174-60-14
 WN6UIE 17,748- 174-51-23
 WA6BIL 17,650- 178-50-14
 WB6OYD 11,856- 125-48- 1
 W6LYY 3726- 69-27- 3
 WB6RQV 615- 22-15- 3
 WA6SFM (WA6DHM WB6s CIA JJE POV) 71,280- 495-72-23

WN6UFW (+WN6UCC) 26,216- 226-58-19
 WB6PUP (+WA6UGT) 11,655- 130-45-18
 WB6OYN (+WN6AIT) 4690- 68-35- 7

Orange

200 Watts or Less
 K6HRT 10,208- 116-44- 7
 WA6ORJ 6142- 83-37- 7
 WN6BEH 160- 10- 8-

Santa Barbara

K6QPH 97,014- 656-74-22
 W6PRP 88,128- 614-72-24
 WB6HTK 11,264- 128-44-10
 W6GEB 11,040- 120-46- 4

200 Watts or Less

K6CS 33,536- 262-64-18
 WA6DEI 26,340- 221-60- 8
 WN6YOI 2288- 44-26-15

Santa Clara Valley

W6PAA 157,875-1055-75-24

WA6PGB 110,400- 736-75-24
 W6OWQ (WA1ABW, opr.) 105,820- 715-74-22

VE7AUA/W6
 96,040- 686-70-19
 W6OKK 77,188- 533-73-20
 W6ASH 64,113- 453-71-18
 WB6KSZ 50,920- 380-67-23

W6OCP 47,472- 344-69-20
 WB6YHE 47,464- 349-68-19
 K6MF 35,636- 303-59-23
 WA6QOI 34,688- 271-64-19
 K6ZJY 30,624- 232-66-14
 W6GWQ 29,900- 230-65-14
 W6KZJ 24,738- 217-57-16

K6EBB 18,816- 196-48- 4
 K6CQF 15,688- 148-53-
 K6ODK 1974- 48-21-13
 WA6NKK (K6SMH, opr.) 1840- 40-23- 3

K6YA (W6JK W6BS LSN YZI) 53,410- 382-70-18
 W6YX (WB2REE W6JTH) 28,710- 248-58-12

WB6BQR (WA9BMG) 21,200- 200-53-20
 WB6WSL (K6ODK W6IRA) 7410- 98-39-11

200 Watts or Less
 K6SSJ 106,042- 721-74-24
 K6QZ 79,488- 552-72-19
 W6HJP 40,066- 300-67-22
 WN6OSS 24,255- 224-55-18
 WA6KQY 21,200- 200-53-20
 WB6EXW 19,504- 184-53-20
 WB6TYA 18,998- 161-59-18
 WB6WFO 16,006- 153-53-20
 W6CLZ 15,180- 138-55-10
 W6IRA 5280- 87-32-12
 WA6NDN 3600- 72-25- 4
 WN6UOC 2091- 62-17-14
 W6OKF 1541- 34-23- 4
 W6JTH/6 559- 22-13- 3
 WA6ADH 420- 21-10-
 K6SMH 300- 15-10- 3
 WN6AKZ 48- 7- 4- 5

San Diego
 W6MAR 157,950-1054-75-23
 K6SDR 146,200- 978-75-24

200 Watts or Less
 WB6HGJ 72,278- 516-71-19
 WN6SJA/6 14,700- 147-50-22

WB0DBF/6 1760- 44-20- 3
 WN6UFY 162- 10- 9- 6

San Francisco
 K6NCG (K6FRP, opr.) 88,690- 636-70-24
 W6ZT 30,000- 250-60-22

W6BIP (+WA6DJ) 99,604- 673-74-24

200 Watts or Less
 WB6ITN 5236- 77-34-12
 WN6YCB 2320- 58-20-13
 WN6VTC 234- 13- 9- 2

San Joaquin Valley
 K6QHC 70,128- 488-72-15
 K6TG 22,326- 183-61-13
 WA6JDB 15,794- 149-53- 7

200 Watts or Less
 WA6SXL 41,004- 306-67-23
 WN6SWM 19,000- 190-50-15

Sacramento Valley
 WA6IVD 90,812- 622-73-
 WA6NYV 42,980- 307-70-15

K6SG 33,866- 288-59-10
 W6KYA 6440- 81-40- 5
 WA6OWH 476- 17-14- 3

200 Watts or Less
 W6EGX 31,500- 250-63-15
 W6NJU 30,872- 227-68-11
 K6SSST 9512- 116-41-18

Hawaii
 KH6RS (K2SL, opr.) 142,376- 964-74-24

KH6IJ 67,340- 481-70-15
 KH6IGC 42,160- 340-62-17

200 Watts or Less
 KH6HOG 2047- 45-23- 9
 WH6IFN 896- 29-16-17

7

Arizona
 W7YS 54,537- 401-68-21
 W7ZMD 52,966- 374-71-18
 K7JVR 25,254- 207-61-22
 W7AWH 5550- 77-37- 2

200 Watts or Less
 WA7TXE 37,324- 301-62-17
 K7PUC 19,494- 172-57-20
 K7IPZ 19,386- 181-54-13
 WA7VVFY 4290- 65-33- 9
 WA7VV5 33- 6- 3- 4

Idaho
 K7NHW 124,392- 852-73-22
 W7IUO 56,875- 440-65-18
 W7GHT 34,648- 284-61- 9
 W7CFL 588- 21-14- 1

Montana
 W7GKF 111,740- 757-74-22
 WN7VXM (+K2UAR W7DB
 WA7s QZD SRB WN7s VXK
 VXL) 8680- 114-40-23

200 Watts or Less
 K7CPC 66,665- 499-67-24

Nevada
 WA7NIN (W6OAT, opr.) 116,581- 802-73-24
 WA7CWM 27,280- 221-62- 9

200 Watts or Less
 K7EKN 13,770- 135-51- 8
 WA7KXJ/7 108- 9- 6- 1

Oregon
 W7WW 96,702- 681-71-23
 W7LT 6240- 78-40-13

200 Watts or Less
 K7WPCP 40,200- 335-60-23
 W7AMQX 38,912- 304-64-21
 K2LIP/7 32,178- 260-62-23
 K7WWR 20,570- 188-55- 7
 K7IWD 1968- 41-24-
 WA7GOO 784- 25-16- 2

Utah
 W7CYH 91,392- 672-68-24
 WA7RLF 840- 28-15- 5

200 Watts or Less
 WA7QWF 14,651- 150-49- 9

Wyoming
 W7HRM 46,230- 345-67-16
 W7LRL/7 (+WA7HDD) 77,004- 559-69-22

Alaska
 KL7HAQ 50,524- 373-68-17
 KL7HLM (K4FW, opr.) 16,826- 180-47-12
 KL7HRP 2124- 5918- 8

Michigan
 W9AQW/8 119,063- 819-73-24
 WA8YQO 118,728- 826-72-23
 K8BKF (WB8MKR, opr.) 71,760- 520-69-15

Michigan
 W8VPC 66,102- 479-69-19
 WB8FUO 65,688- 483-68-18
 W8ROC 51,952- 385-68-19
 WB8LZA 26,230- 215-61-19

Michigan
 WB8AAC 20,520- 180-57-14
 WB8NCD 15,180- 165-46- 8
 W8QM/8 14,145- 174-41-16
 W8HAN 9842- 133-37-12

Michigan
 WB8KFW 9800- 100-49- 8
 W8EGI 8600- 100-43- 4
 WB8WBZ 3828- 58-33-
 W8OM 2700- 50-27- 2

Michigan
 W8KZM 432- 18-12- 2
 WB8JCG 300- 15-10- 2
 W8IHE (+WN8QJL) 8000- 100-40-14

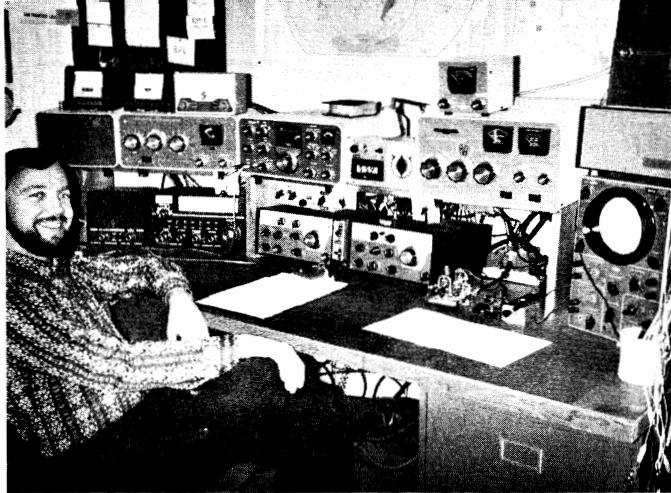
200 Watts or Less
 W8TJQ 46,760- 334-70-22

PHONE SCORES

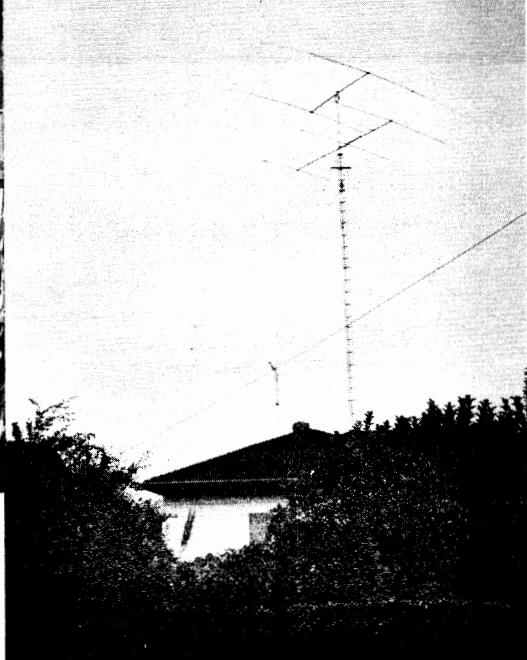
VF

55

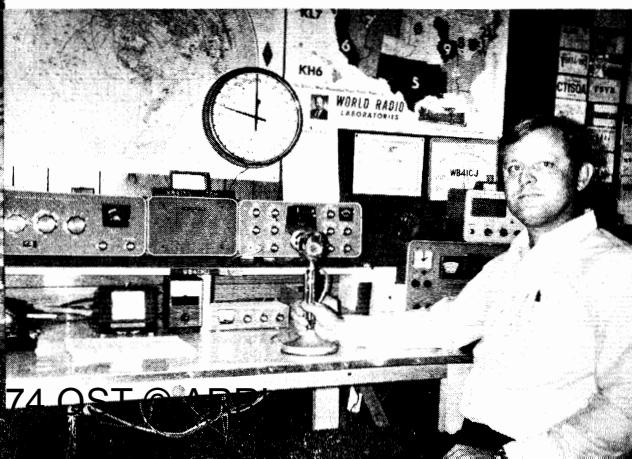
WA3UCF/VO2 (+VO2AS)
31,506- 267-59-18



Above: Ken, W6PAA, who is one of the members of the ARRL Contest Advisory Committee. Two rigs and a nice neat layout make for quick band changes. Right: The antennas of W6PAA, SCV. On top is a 2-element 40-meter beam at 80 feet. A TH6DX rests below it at 70 feet. The tower also supports slopers for 80 and a wire for 160. The short tower holds a TH-3 at 30 feet.



Left: WA5QXD who put together a nice 148K phone showing to grab third place in NTex. Outside, Sam uses a 4-element 10/15 meter quad at 50 feet, a vertical dipole on 20, a 40 meter sloper and verticals for 40 and 80. Below left: Gary, WA2IYH. His SR-150 put a signal into dipoles and a TH-2 to the tune of 75K on phone from NLI. Below: WB4IMU, Tom.



Quebec	
VE2GA	10,537- 130-41- 8
<i>200 Watts or Less</i>	
W3GRW/VE2	42,210- 335-63-21
<i>Ontario</i>	
VE3ENM	97,236- 659-74-23
VE3HUM	95,025- 634-75-23
VE3MCH (VE3s AXV CPU DDL EGT)	86,870- 595-73-22
<i>200 Watts or Less</i>	
VE3GYO	42,768- 325-66-21
VE3DAC	30,210- 265-57-23
VE3DH	1248- 39-16- 3
<i>Saskatchewan</i>	
VE5XC	29,862- 239-63-20
VESTO	8832- 96-46- 7
<i>200 Watts or Less</i>	
VE5TT	12,470- 145-43-11
<i>Alberta</i>	
VE6MP	87,078- 631-69-18
VE6AGV	77,964- 534-73-17
<i>200 Watts or Less</i>	
VE6ATT	25,812- 239-54-21
<i>British Columbia</i>	
VA7WJ (VE7BDJ, opr.)	166,056-1123-74-24
<i>Yukon-N.W.T.</i>	
W3DNY/VE8	5742- 87-33- 8
U.S.A.	
<i>1</i>	
<i>Connecticut</i>	
K1VTM	178,340-1205-74-24
W1FJB*	176,250-1175-75-24
K1ZND*	170,550-1139-75-24
WA1PID*	160,580-1087-74-24
KITHQ	151,986-1041-73-24
W1ZM (WA1CQW, opr.)	140,025- 937-75-23
K1JHX	138,750- 926-75-18
W1GQQ	117,750- 787-75-21
WA1MAO	96,214- 660-73-20
WA1KOC	92,750- 666-70-24
K1DPB	82,477- 618-67-20
W1LVLW	77,568- 606-64-24
K1GUD	76,296- 580-66-17
WA1KOJ	54,558- 433-63-22
W1RML	51,093- 408-63-16
W1BIH	49,650- 331-75- 8
WA1NNC	47,740- 389-62-14
WA1NES	46,787- 385-61-10
WA1JBN	45,696- 357-64-16
K1ASJ	42,780- 350-62-21
W1SG	37,076- 299-62-12
W1AW (WA3JSU, opr.)*	29,425- 270-55- 5
W1RZG	28,184- 271-52-17
K1VJJ	15,990- 206-39-11
W1GPK	3350- 67-25-13
WB2CHO/1	1404- 39-18- 1
W1FLM (+WA1NES)	144,448- 987-74-24
WA1KID (W1ARR)	142,500- 953-75-21
WA9AUM/1 (+WA8OBG)	75,024- 521-72-17
<i>200 Watts or Less</i>	
W1ECH	61,848- 431-72-19
WA1LNQ	60,264- 420-72-13
WA1PHF (WB2CHO, opr.)	58,007- 410-71-20
WA1NLD	34,100- 276-62- 9
K1RLU	29,280- 244-60-13
W1EQ	26,136- 199-66-14
W1DGL	21,000- 210-50- 8
K1MUJ/1 (WA1HYN, opr.)	11,760- 168-35- 7
WA1RFM	8800- 100-44- 7
W1NRG/1 (WA1QME, opr.)	7800- 100-39- 8
WA1FCM*	7800- 100-39- 4
WA1HRC/1 (WA1s NBS OPG WN1s PXM PYI)	33,330- 303-55-24
Eastern Massachusetts	
WIMX (WA1KKM, opr.)	149,066-102-73-24
K1CPF	139,050- 930-75-23
WA1JUY (WA1YYY, opr.)	116,100- 775-75-21
K1OME	111,000- 757-74-22
WA1EOT	105,850- 725-73-22
W1HWM	69,810- 539-65-21
WA1MCY	55,290- 485-57-21
WA1OLV	48,480- 404-60-21
KH6YI/W1	46,230- 345-67-
WA1RBO (WA1JZC, opr.)	42,651- 339-63- 5
WA1RGW	37,224- 396-47-20
WA1MHJ	33,178- 313-53- 9
WA1NRV	32,079- 316-51- 5
W1AX	29,480- 220-67- 6
DL2AA/W1	23,700- 237-50-11
W1PLJ	5856- 92-32- 9
WA2ITR/1	1088- 32-17- 2
WA1CDW	700- 35-10-24
WIAF (WA1JOJ WA3s GQJ MQJ WA5ZQH WA8NRO)	616,840- 906-70-24
WA1KZE (+WA1s NII NRV)	100,567- 752-67-18
WA1NUQ/1 (+WN1s RZK RZJ and friends)	15,437- 180-43-24
WA1OML/1 (+WA1s JIN MYA)	9024- 143-32- 9
<i>200 Watts or Less</i>	
WA1KBG	28,710- 261-55-15
WA1PAZ	27,820- 270-52-18
WA1LBP	22,464- 212-54-18
WA1NRT	16,968- 2024-20-12
WA1LAJ	12,400- 155-40-12
WA1PWF	12,000- 200-30-11
K1HWR	8904- 106-42- 8
W2GQP/1	6336- 96-33- 7
WA1NIK	4624- 68-34- 8
WA1GXN	4480- 80-28- 8
WA1RMA	3976- 71-28- 3
WA1OSZ	3586- 82-22-13
W1CRL	2754- 51-27- 8
WA1ITZ	784- 28-14- 7
K1BRD	144- 9- 8- 3
WA1PDM	144- 12- 6- 1
K1NUN	2- 1- 1- 1
WA1LMJ (+WA1s OTF QJU QQK)	42,532- 343-62-24
Maine	
WA1PAY	8806- 119-37-23
<i>200 Watts or Less</i>	
WA1NMW	330- 17-10- 3
New Hampshire	
K1CSJ	153,075-1026-75-24
W1BPW	24,168- 228-53- 3
W1CHA	23,746- 192-62-10
W1IXL	14,792- 172-43- 4
<i>200 Watts or Less</i>	
WA1LNH	34,430- 313-55-23
WA1ODG	5612- 125-23-10
Rhode Island	
K1JYN	133,444- 914-73-22
K1HMO	34,638- 251-69-16
WA1CVF/1	29,323- 299-59-16
WA1MQO (+K1s EGH GMW IKN WA1FRZ Sally)	97,650- 652-75-24
K1LPA/1 (+K1s KY1 VQK)	48,438- 351-69-23
<i>200 Watts or Less</i>	
WA1QOG	10,578- 129-41- 9
WA1RFT	2646- 63-21- 5
Vermont	
K1DQV/1	171,000-1141-75-24
WA1ABV/1	153,225-1022-75-24
WA1PSK	26,352- 216-61- 8
Eastern Massachusetts	
WB2PWS/1	33,360- 278-60-13
Western Massachusetts	
W1PWO (WA1 BXQ MYK OZX)	67,452- 512-66-23
<i>200 Watts or Less</i>	
W1FLX	19,412- 211-46-10
WA1PCJ	12,012- 154-39-17
WA1MFB	1462- 43-17- 2
WA1FKF	1170- 39-15- 2
WA1PZM	800- 25-16- 2
WA1LPT	484- 22-11- 2
200 Watts or Less	
WB2QYT	90,300- 603-75-24
WB2SHH	81,360- 678-60-24
WA2MYZ	55,744- 416-67-17
WB2SMH	54,002- 403-67-21
WA2SZQ	27,438- 270-51- 9
WA2DNY	12,100- 121-50- 7
WB2CMO	900- 25-18- K2BPP (WB2s APO BYW)
200 Watts or Less	
WB2RJJ	92,944- 628-74-24
WB2VFT	58,930- 415-71-23
WB2CST	17,476- 257-34-12
WB2AXY	9800- 175-28- 7
WA2NTI	8473- 115-37-11
WA2FVH	5000- 100-25- 4
WA2ONH	1800- 60-15- WB2ZLZ
200 Watts or Less	
Southern New Jersey	
WB2ELK	102,492- 703-73-24
K2JOC	47,541- 347-69-15
W2REH	46,410- 357-65- 6
K2AA/2 (W2FYS, opr.)	44,730- 315-71-18
WA2NPD	41,968- 344-61-13
W2FBF	20,636- 235-44- 5
WB2BZY	15,322- 163-47-18
W2ITG	13,720- 140-49-10
W2FTK	12,040- 140-43-15
WA2TRK	11,100- 111-50- 9
W2PFQ	11,092- 118-47-11
W2UI	8200- 100-41- 3
WB2VLD	1944- 54-18- 6
K2FT (+W2s GEY ORA PSY)	93,744- 653-72-24
K2BR/2 (K2JOX W2s BYW GOF HBT WB2UON)	81,539- 609-67-17
W2PAU (+W2ESX)	73,710- 527-70-24
W2EPA (+WA3TVS)	63,492- 429-74-24
WA2FXO (+Larry)	2360- 60-20- 5
<i>200 Watts or Less</i>	
K3LWR/2	80,884- 554-73-20
WB2FIF	13,356- 188-36-16
WA2NUL	13,156- 145-46-18
W2REB	8251- 112-37- 5
WB5DBO/2	6256- 93-34- K8DCP/2
W2OZG	3640- 65-28- 4
W2OZBNE	3360- 80-21-11
K2HPV	2500- 50-25- 6
WB2EWF	2200- 55-20- 4
W2HBE	2142- 51-21- 6
WA2LAL	1020- 30-17- 2
Western New York	
W2GUH	163,500-1090-75-24
W2CXM (WA1LXK, opr.)	158,832-1103-72-24
WA2SIS	125,122- 85-73-19
W2PDB (WB2PGM, opr.)	113,442- 767-74-24
WA2BCK	106,128- 737-72-21
W2FXA (WB2YQH, opr.)	97,828- 661-74-23
WA2EKW	58,652- 473-62-15
WA2DHG	46,992- 356-66-19
WA2AO	44,872- 316-71-11
WA2MBP	34,020- 243-70-10
WA2SON	26,460- 189-70-20
K2SWT	16,432- 158-52-10
WB2EZU	8400- 105-40- 8
W2FHU (+WA2RUP WB2s LEI ZOW)	82,928- 584-71-22
W2VDX (WA2QXA WN2ILM)	58,200- 388-75-24
W2OW (WA2s MSQ RBJ WB2GHH WN2s LNX SGS)	12,905- 269-65-22
<i>200 Watts or Less</i>	
WB2FNS	66,240- 460-72-24
WA2MPC	60,120- 419-72-14
WA2BAO	55,510- 397-70-24
WB2ABD	47,124- 357-66-16
W2BHP	38,272- 307-64-20
WB2EXL	14,976- 144-52-24
W2GHD	10,778- 160-34-14
WA2AOG	10,062- 118-43- 5
Northern New Jersey	
WA2UOO	163,500-1090-75-23
WB2RKK	129,888- 903-72-22

WA2BRX	10,000- 125-40- 9	K3IMC	41,406- 309-67-23	W4FBF (WA3MID K4s BWS LOW WA4s APD IPQ VCC WB4s CES NDB WAW YFC WN4s AMU DRC)	74,458- 645-59-23	K4CG (WA8RGJ, opr. + 2 meter net) 114,000- 761-75-24
WB2GTB	7138- 83-43-13	K3TNM	40,138- 329-61-22	WB4s (+KH6BIO WN4EJ) 90,650- 616-74-23		K4LDR (+KH6BIO WN4EJ) 90,650- 616-74-23
WB2NRR	5350- 107-25- 5	WA3TDZ	19,038- 167-57-18	WB4s (+K3PCC) 49,640- 365-68-21		WB4RDV (+K3PCC) 49,640- 365-68-21
W2JRI	2070- 45-23- 8	WA3JYV	18,318- 129-71- 6			200 Watts or Less
WB2JRX	1564- 34-23- 3	W3USS (WA1FEQ, opr.)	11,357- 139-41-10			
WA2RFR (+WB2EQR)	25,228- 238-53-16	W3CWC (WA3EOQ, opr.)	7600- 100-38- 5	K4FOB	69,613- 522-67-20	W4CHB 84,384- 586-72-22
3		W3DPU/3	5940- 99-30-12	WA4BIB	33,116- 244-68-18	W4COP (WB4UKA, opr.) 78,192- 543-72-21
Delaware		WB4RDG/3	2800- 56-25- 5	W4NQA/4	4320- 80-27- 3	W4YZC 61,320- 420-73-15
K3MYR	28,500- 250-57-11	WB9BXV/3	1840- 46-20- 2	WB4TAK	1425- 39-19- 4	WB4URW 42,240- 330-64- 9
	200 Watts or Less	WA3QIA	576- 24-12- 1			K4IAF 19,502- 199-41-11
W3CKH	19,690- 175-59- 5	W3KA	126- 9- 7			W4IML 17,818- 151-59-18
W3CHB	15,680- 160-49-19	WA3NUL/3 (WA3s EOP FYZ s URR WN3VBV)	58,491- 437-67-19	WA4JYJ	9384- 102-46- 9	WA4BJX 14,432- 177-41-14
WA3DUM	7844- 106-37-10	WA3TZT (+WA3QZW)	31,124- 251-62-23			K4FTO 9568- 104-46- 9
WA3SKP	624- 24-13- 1	K3IVO (WA3VFJ WBSFGF)	25,578- 221-58-17			K4KA 4536- 64-36- 4
Eastern Pennsylvania						WA4BIX 2704- 52-26- 3
WA3GUL	138,240- 961-72-23					WA0DYI/4 666- 37- 9-11
W3YB (WB3DQG, opr.)	113,700- 758-75-24					WB4DXS 60- 15- 2- 8
K3DPQ	85,626- 603-71-23	WB4ZQC	30,328- 223-68-14			K4GEL (+W4UPB WB4s YXR ZTR) 17,712- 164-54-17
W3JSX	69,580- 490-71-17	WB4YFF	12,195- 138-45-14			W4ADM (+WN4EXP) 2231- 49-23-11
WA3EUE (WA2PYG, opr.)	68,408- 503-68-21	K3CR (WA2QNT WA3s JIH QLG VJZ)	76,860- 549-70-26			West Indies
K3HXS	66,170- 509-65-16		200 Watts or Less			KP4USN (WA1LHJ WA2KUD WB2JGD) 106,726- 731-73-24
K3ANA	63,310- 487-65-13	K3BSY	47,520- 361-66-19			
K3DZB	38,994- 291-61-11	WA3JPJ	37,548- 298-63-23			
K5ZUV/3	15,500- 155-50-14	WA3UEN	28,476- 228-63-18			
WA3PPH	14,208- 148-48- 8	WA3SES	2208- 48-23- 5			
WA3RCA (WA3s QQQ SBT TMP WN3SD M. Gluck, E. Soll)	43,440- 362-60-21	WA3QJR	2072- 37-28- 3			
WA3NVZ (+WA3LTC)	17,052- 174-49-18					
200 Watts or Less						
WA3NAF	36,696- 278-66- 1	K3ZGB	45,158- 337-67-17			
WA3VHB	36,600- 300-61-13	K4HPR	5642- 91-31- 3			
K3OJO	18,000- 200-45- 4	K4JK	4464- 62-36- 4			
WA3ABN	12,064- 116-52-11	K4AEB	4140- 90-23- 3			
WA3RHX	2275- 46-25- 5		200 Watts or Less			
W3PNL	1848- 42-22- 3	WA4EGN/4	35,046- 266-66-16			
K3JQH	224- 14- 8-	W4DS	13,184- 103-64-10			
WA3OVM	50- 5- 5- 1	W4MVM (+WN4FBA)	14,739- 145-51- 8			
WA3SBT	2- 1- 1- 1					
WA3TYQ (+WA3UCQ WN3UDV)	14,432- 164-44-22					
Maryland-D.C.						
W3LPL (WA3HRV, opr.)	177,300-1182-75-24	K4ZGB	96,600- 644-75-21			
W3EZT (WA3IAQ, opr.)	175,575-1178-75-24	K4HAV	46,512- 323-72-18			
W3AZD	156,000-1040-75-24	K4UEE	43,626- 332-66-10			
WA3AMH/3	147,168-1009-73-24	WB4IMU	39,195- 302-65-20			
W3IN	124,986- 848-74-24	K4BAI	33,180- 277-60- 7			
W3DWT	93,536- 633-74-15	K4EZ	7566- 97-39- 4			
WA3AQFQ	87,840- 610-72-20	WB4RUA	5810- 83-35- 3			
WA3LHG	78,780- 606-65-21	W4JMN	3600- 75-24- 2			
W3BQV/3	58,156- 434-67-10	WB4TVU (+WA4FOU WB4s BCL VAF)	4800- 76-32- 5			
WA3QDH	57,540- 411-70-20					
K3NPV	54,739- 45-67-11	WB4JBS/4	93,288- 676-69-15			
K3GJD	49,408- 366-64- 7		200 Watts or Less			
W3GN	44,590- 321-70-13	W4GXW	23,562- 188-63-16			
W3FAE	40,040- 308-65-18	K4CBO	11,136- 116-48-12			
W3AXW	39,882- 289-69-12	W4UYC	9180- 102-45-11			
W3MFJ	32,736- 264-62-11	K4ADI	8772- 102-43-10			
WA3OEJ	24,070- 208-58-13	WB4WJE	1276- 29-22- 7			
W3KMV	20,776- 212-49- 5					
W3PWO	12,150- 122-49-10	Kentucky				
WA3OHQ	10,600- 100-53- 8	WB4HUS (WB4NFQ, opr.)	135,707- 930-73-22			
W3FCI	5800- 100-29- 5	WB4OSS	100,125- 668-75-23			
W3GRF	3000- 60-25- 2	K4FU	78,840- 548-72-13			
W3HH	432- 18-12- 1	WA4SKP	22,302- 189-59-15			
W3RIL	2- 1- 1- 1	WB4TPU (+WA4CTC WB4s OFK SJ WBP YDX)	118,800- 798-75-23			
W3ZKH (+2 meter net)		W4OXM (WB4s VBG WCM)	40,656- 308-66-18			
137,100- 914-75-19		200 Watts or Less				
WA3EPT (WB2s MZE NMH UZU WB4LPJ)	122,932- 842-73-24	WB4REN	98,974- 697-71-23			
K3TUW (+2 meter net)	106,650- 711-75-19	W4RIW	25,056- 216-58-18			
W3PZW (+WN3UTA)	74,736- 519-72-23	WB4HNN/4 (+WB4 ASW NOJ)	35,072- 274-64-23			
WA3LJP (+WA3NQJ)	68,474- 469-73-19	K4ISI (+WB4VVQ WN4s ZSV ZYS)	8844- 134-33- 7			
200 Watts or Less						
K3DVS	88,776- 617-72-23	North Carolina				
WA3NYU	70,280- 502-70-23	WA4FFW	146,150- 990-74-23			
K3ZAW	55,200- 368-75-16	K4EQA	117,075- 784-75-24			
G3ZCZ/W3	51,336- 360-72-24	K4CAX	60- 6- 5- 1			

124,425- 832-75-23

(Continued on page 169)

WB5JIR/S	4-	2- 1- 1	WA6NBY (+W3OVV) 8820- 105-42-10
Oklahoma			
W5DS	99,684-	705-71-21	Orange WA6QVA 15,912- 153-52-17
K5DEC	10,626-	116-46-12	200 Watts or Less
W5BAR	1496-	34-22- 7	WA6HWR 115,704- 805-72-23
WA5DTL (WB5s GWB HUP)	60,030-	435-69-24	WB6KRI 12,366- 116-54-8
200 Watts or Less			WA6FIT 10,578- 123-43-5
WA5RRY	8888-	104-44- 6	
Southern Texas			
K5RLW	154,275-	1029-75-24	Santa Barbara K6QPH 97,966- 671-73-18
W5RTQ	146,550-	977-75-21	W6PRP 84,607- 582-73-18
K5LWL	144,374-	978-74-21	WB6HTK 14,092- 136-52-14
WA5ZNY	107,164-	734-73-18	200 Watts or Less
K5BSZ	61,416-	429-72-12	W6OUR 22,388- 193-58-24
W5QAM	37,743-	274-69-16	Santa Clara Valley W6PAA 170,348-1158-74-24
K5PFL	27,144-	234-58- 5	W6OCP 53,958- 391-69-19
K5AAD	16,100-	161-50- 2	K6BWD 53,406- 387-69-17
WA5LES	8815-	103-43- 2	WA6IDF 41,208-305-68-14
W5YG (WB2NTC WA5s RRL			K6MFB 28,892- 234-62-21
RXT WB5SJE	81,690-	585-70-16	VE7AUA/W6
200 Watts or Less			28,556- 242-59- 8
WA5WQF	102,150-	681-75-20	K6EBB (WB6LHN, opr.) 27,454- 259-53- 5
WB4FDT/S			K6VGW 13,054- 107-61- 7
	86,768-	643-68-19	WB6GNM 12,726- 153-42-12
W5OIB	80,852-	596-68-16	WA6GFY (WB6EXW, opr.) 9216- 128-36
WA5KLX	30,373-	551-73-22	WA6LIJ 8424- 117-36- 8
WA5UHT	24,600-	205-60-12	W6KYP 1776- 41-24- 1
WB5IQG	24,308-	206-59-13	WA6PMK/6 120- 10- 6-
WB5FVT	17,808-	170-53-15	WB6OOL (+WB9LPK) 145,575- 981-75-24
K5IRS	9204-	118-39-10	W6OKK (+WB6DSV) 126,975- 847-75-24
WB5JEA	8712-	100-44- 8	W6YX (WB2REC WA6s FXP SLF UMI WB6s RAL ZUO WB9FUV) 100,240- 716-70-24
WA5RRL/S	50-	5- 5- 1	K6YA (W6s EXT JKJ OCP WA6NIL WB6s GNW LSN OVW) 74,772- 558-67-24
Canal Zone			
KZ5NG (WA1LWS WA4UAZ)	121,200-	809-75-20	WB6WSL (W1CHF K6s HQE ODK W6s IRA LLO WA6s WA6s LIJ ROM SYG WN6s AKZ YJR) 69,613- 530-67-24
6			WA6NKK (J. Bliss, J. Brown, N. Duckett, B. Forsberg, D. Orlando, I. Sanders, D. Sherman, R. Stiebel, G. Sturgeon, A. Trammell, G. Watson) 47,905- 359-67-22
East Bay			200 Watts or Less WA6PGL 69,690- 505-69-16
K6AUD	58,838-	403-73-23	WB6YHE 24,522- 201-61-10
K6HIIH	15,264-	144-53-11	W6HJP 17,464- 148-59- 9
W6RQZ	2520-	60-21- 3	WB6EXW 9072- 108-42-10
W6KKG (+W6DOD)	85,848-	588-73-24	WB6HWQ 8918- 92-49- 6
200 Watts or Less			WA6FKK 8000- 100-40-10
WB6PLJ	8774-	107-41-12	K6SMH 5256- 73-36- 5
Los Angeles			K6EIH 4140- 69-30- 5
W6HX (WB6OLD, opr.)	198,225-	1323-75-24	WB6WZF 3364- 58-29-11
W6DGH (WB6ZVC, opr.)	167,700-	1121-75-24	
W6DSQ/6	163,500-	1096-75-24	
W9LVT/6	163,200-	1094-75-23	
WB6VZI	144,321-	990-73-21	
WA6RFX	76,728-	556-69-16	
K6ELX	57,486-	429-67-22	
K6MP	57,400-	410-70-13	
WA6TXE (K0ZTV, opr.)	39,798-	298-67-18	
WA6LCV	30,848-	242-64-19	
W6EO	29,925-	264-57-11	
WB6ZGL	9120-	114-40- 5	
K6OVJ	4752-	88-27- 2	
WB6LSA	1620-	45-18- 3	
W6YRA (K3ZLA WA6s DPQ			
NQK - WB6s GJO RRV			
WA7OAC)	157,125-	1050-75-24	
WB6VPZ (K6s RTR KH WB6s			
CFM EIG KNC LYY WA6BIL			
WB6s JCD WWU)	85,702-	587-73-24	
200 Watts or Less			
WB6KPN	43,884-	319-69-15	
WA6TLV	43,276-	350-62-21	
WA6SMS	42,108-	319-66-16	
W6DAB	40,736-	304-67-14	
WA6VUD	16,638-	177-47-12	
WA6GBL	12,643-	136-47-11	
WA6PXY	12,604-	139-46- 7	
W6CFM	1968-	41-24- 5	
WB6RVQ	1968-	41-24- 5	
WA6OKP	168-	14- 6- 2	
WA6SFM (WB6s CIA JJE POV)	56,916-	428-68-22	

what is an antenna noise bridge?



Antenna Noise Bridge (an-ten-a noiz brij), n. Omega-t's name for a specialized testing device that checks your antenna system for resonant frequency and coaxial impedance.

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PRICES	POST PAID
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Spinner (-S)	\$1.00
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Case: 2x4"; shaft 1/4"x3"

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WA6JVD 23,760- 216-55-
W6KYA 17,200- 172-50- 7
K6SG 16,112- 152-53- 8
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AG1 BEV WB6RLR
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W6NJU/6 36,849- 260-71-11
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WA7TXE 20,800- 201-52-14

Idaho

K7NHF 165,600-1104-75-22

W7CFL 93,791- 661-71-18

W7GHT 8094- 107-38- 3

Montana

K7LTV 125,268- 858-73-18

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W7TYY 30,866- 253-61-14

WA7IZR 13,770- 135-51- 6

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VXL VXM VNN)

57,720- 444-65-22

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WA7NIN (W6QAT, opr.)

183,525-1232-75-24

WA7CWM 82,715- 586-71-14

W7YKN 37,944- 306-62-10

Oregon

WA7PMI 107,424- 746-72-20

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WA7JBE 21,504- 192-56-10

WA7MQX 21,492- 199-54-17

WA7GOO 11,703- 126-47- 6

K7WWR 850- 25-17- 2

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W7GXC 54,196- 404-68-17

W7HWS 44,748- 339-66-16

K1PKO/7 37,848- 334-57- 7

WA7GWU 27,648- 216-64- 5

W7OGU 9460- 110-43- 9

WA7RLF 4080- 60-34- 7

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WA7QWF 32,426- 263-62-16

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W7RM (K7VPF, opr.)

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W7SFA (VE7ZB, opr.)

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WA7FFU/7 119,720- 820-73-24

K7GWE (WA7GWL, opr.)

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W7BUN 74,340- 531-70-17

W7VMF 69,224- 509-68-15

WA7JBM 68,640- 533-65-14

W7WMY 63,872- 501-64-17

W7JEG 62,243- 465-67-16

K7NWS (WA7JCB, opr.)

62,238- 474-66-20

W7JWJ 59,296- 436-68-20
WA7FBQ 57,460- 423-68-18
WA7HTN 54,730- 408-65-15
K7GZO 52,975- 408-65-23
W7JG (WA7RWK, opr.)

48,236- 389-62-13

W7YTN 42,176- 330-64-11

K7MOK 35,105- 299-59-16

WA7GY 35,040- 299-60-14

W7IOB 34,278- 298-58-21

WA7UQG 28,726- 271-53-19

W7ZTI 26,264- 268-49-15

K7TAK 25,410- 232-55-17

WA7IRV 23,980- 221-55- 6

W7QCV 23,205- 228-51-15

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W7RJW 19,800- 198-50-12

WA7PUE 19,392- 202-48-19

W7TLK 18,800- 238-40-13

K7CTN 15,886- 169-47-13

W7IKG 12,464- 168-38- 7

WA7JCW (WA7VZX, opr.)

12,052- 132-46- 6

WA7RUY 12,000- 150-40-13

W7AZI 10,648- 121-44-10

W7WLX 9990- 111-45-12

W7GLS 9152- 104-44-15

W7AOB 7140- 105-34- 7

WA7WS 6426- 95-34- 7

WA7ACQ 4512- 94-24- 4

K7OFT 3926- 76-26- 3

W7OS 3920- 70-28- 8

WA7TNY 2880- 60-24-14

WA7BVF 2000- 40-25- 5

W7WPW 1710- 45-19- 4

W7YDS 986- 29-17- 4

W7CLN 112- 10- 7- 1

WA7IPR 34- 17- 13

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W7AF 35,035- 322-55-22

K7NCL 17,101- 175-49-14

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WA7UGF/7 27,666- 261-53-22

WA7BSQ 18,032- 196-46-16

W7COP 17,484- 186-47-22

K7NQH 17,101- 175-49-14

WN7VBT/WA7TOY 14,850- 169-45-23

WA7UGF/7 14,620- 170-43-14

W7WIA 14,310- 159-45-17

K7KGP 13,632- 144-48- 9

WA7IBL 12,558- 161-39-11

WA7KLX 12,232- 139-44-16

W7EAB 12,207- 157-39-16

WA7BHH 12,008- 160-38-12

WA7JRF 11,628- 154-38-24

W7DFO 10,750- 126-43-12

K7RSB 10,080- 142-36-10

K7GGD 9880- 130-38-10

W7RGD 8436- 114-37-13

W7GTM 7840- 112-35- 8

W7SF 7056- 126-28- 6

K7IND 6567- 100-33- 6

W7RKS 6032- 104-29-14

K7ANP 4925- 99-25-13

WA7CSF 4050- 75-27- 9

W7HLP 3886- 68-29- 8

K7EKX 3240- 60-27- 8

WA7UEL 3094- 61-26-10

WA7QKQ 3048- 64-24-14

W7GVG 2883- 47-31-11

K7LAY 2856- 68-21- 6

WA7NOH 2772- 63-22- 4

WB6ESS/7 2622- 69-19- 8

WA7UVA 2500- 50-25- 2

K7TTS 2420- 55-22- 8

W7IYH 2196- 61-18- 6

WA7DOH 2128- 56-19- 4

WA7JFL 1904- 56-17-11

W7IG 992- 31-16- 3

WA7IOF 986- 29-17-11

WA7NRH 864- 36-12-11

K7KRY 748- 22-17- 5

WA7TVT 504- 18-14- 5

W7GPR 462- 21-11- 2

K7SRU 324- 27- 6- 3

WA7OOO 276- 23- 6- 1

WA7THA 124- 62- 1-19

WA7TJA 120- 30- 2- 6

WA7TJH 105- 12- 7- 2

K7NPG 80- 20- 2- 12

W7FAB 56- 28- 1- 7

K7QLC 50- 25- 1- 14

WA7SCN 28- 7- 2- 3

K7TCY 27- 5- 3- 1

WA7JUB 22- 11- 1- 1

WA7RFN 10- 5- 1- 1
WA7AKW 8- 4- 1- 6
WA7BLE 8- 2- 2- 1
K7WYO 2- 1- 1- 1

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11,562- 141-41- 6

Alaska

KL7FAF (K3ZMI, opr.)
28,024- 227-62-15
KL7HRP 19,404- 198-49-14

8

Michigan

WB8DQL 150,408-1051-72-24
W9AQW/8

146,376-1028-72-24
WB8FRE 72,590- 527-70-19

WB8FUO 65,010- 494-66-19

K8MJZ 56,160- 432-65-20

WB8BIOT 49,312- 368-67-24

WB8KZM 49,024- 384-64-17

WB8VPC 23,638- 223-53-11

WA8ZTQ 22,072- 178-62-14

K8JLD 19,257- 200-49-12

WA8OJL 13,552- 121-56-14

WB8WKW 13,468- 130-52- 6

WB8KFV 13,392- 126-54- 8

WB8NCD 12,512- 136-46- 8

WB8LZL 11,844- 126-47-12

K8TFO (WA8MOA, opr.)

6962- 59-59-14

WB8IHE 6669- 86-39- 7

WB8DM 5110- 73-35- 5

WA8AXL 1600- 40-20- 2

WB8EGI 270- 15- 9- 1

WB8QL/8 (+WB8IS C WB8s BPY

HUI IGU)

76,358- 526-73-24

WA8ILQ (+WB8s FBJ ILR

JZN)

14,357- 150-49-20

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WB8BLOA 35,526- 287-62-14

WB8JVW 35,028- 278-63-23

K8GSR 33,000- 253-66-22

WB8LJY 31,602- 229-69-22

WB8TZZ 26,854- 239-58-16

WB8ZHC 24,892- 254-49-20

WB8AYW 23,100- 210-55-17

WB8NVD 20,634- 182-67-14

WA8MEC 17,316- 222-39-16

K8BWC 17,202- 183-47-22

WB8QM 16,740- 186-45-20

WB8ILV 16,380- 183-45-22

WB8QAO 13,725- 153-43-16

WB8SMR 13,000- 130-50- 5

WB8IUK 11,160- 124-45- 7

WA8LAY 8910- 99-45- 6

WB8KIN 8658- 111-39- 8

WB8SEET 4250- 85-25- 7

WB8EEQ 3993- 61-33- 8

WB8PYT 3944- 68-29-14

K8SWW 3366- 51-33- 8

K8MLO 3290- 47-35- 3

WB8NII 3268- 86-19- 7

K8DJR 3080- 55-28- 5

WA8WBZ 2700- 50-27- 5

WB8HDB 2484- 46-27- 4

WB8NXD 2200- 50-22- 4

WB8JUP 2100- 42-25- 4

WB8GKB 1672- 38-22- 5

WB8TIC 800- 25-16- 3

WB8TQJ 510- 17-15- 3

WB8GLC 442- 17-13- 1

WB8HAN 176- 11- 8- 1

WB8HNI (+WB8UZ)

43,349- 324-67-21

K8DAC (WB8s LZA MKR

WN8s NTD NTX)

8474- 112-38-10

K8CVV (+Norm)

2236- 43-26- 4

Ohio

WB8KIC (WA8RXM, opr.)

149,258-1009-74-24

WB8KGE (K8RMK, opr.)

146,146-1004-73-21

WA8YWX 138,000- 920-75-24

WB8AYC 105,000- 703-75-20

WA8USP 94,464- 656-72-19

K8YQW 74,690- 534-70-16

K8HBN 70,992- 493-72-13

WB8DGO 63,656- 439-73-24
WB8LGX 60,900- 435-70-18
WB8HLI 40,788- 309-66-16
WB8KXV 40,032- 278-72-8
WB8VOI 28,800- 240-60-17
WB8ESB 25,956- 206-63-14
WB8AMI 17,024- 152-56-12
WB8OK 14,768- 142-52- 6
WB8VZE 14,416- 136-53- 9
WB8CFG 9353- 100-47- 4
WB8XNV 5664- 118-24- 8
WB8HHP 5658- 123-23- 6
WB8QNR 1776- 37-24- 1
WB8IMF 1680- 35-24- 6
WB8LVT 1216- 32-19- 1
WB8HDF 546- 21-13- 2
K8OGH 480- 20-12- 2
WB8EDU (WA2THV) WB8TKW
WB8s JEL LOL

120,304- 824-73-22
WB8LT (WA1LKU WB8DEA)
112,628- 766-74-24
WB8BBM/8 (WB8s DQP IRL
JJA JMP JUI LMC LSN MQD
WN8s MOC OOB OUE)
107,383- 737-73-24
K8GRA (WB2COV K8ZDB
WB8s KTA LEA)
25,872- 231-56-19
W8RCC (WB8s HEM VKT)
3000- 60-25- 3
200 Watts or Less
WA2LC/8
WB8KEL 96,740- 693-70-22
K8MFQ 76,200- 508-75-16
WB8SWB 54,404- 406-67-21
WB8IAY 47,376- 329-72-22
WB8KEL 44,289- 353-63-14
WB8GUG 32,032- 308-52-18
WB8LNM 31,700- 319-50-13
K8CVI 31,680- 249-64-15
WB8KEO 30,624- 264-58-16
WB8UPH 30,090- 295-51-16
WB8NUA 28,098- 223-63-22
WB8JVT 25,498- 209-61-21
WA4VQD/8

20,196- 187-54-12
WB8LKS 17,672- 190-47- 9
WB8SDV 17,640- 140-63-20
WB8MXO 16,588- 143-58- 6
WB8YRS 10,560- 165-32- 2
K8SWY 9506- 97-49- 9
WB8HHN 8890- 127-35- 9
WB8NBY 7700- 110-35-13
WB8QJW 7144- 94-38-12
WA2THV/8 5600- 100-28- 3
WB8EQQ 3348- 54-31-12
WA8OYR 2666- 43-31- 6
WB8NTY 2214- 41-27- 4
WA8LWH 1292- 34-19- 3
WA8QKA/8 1188- 33-18- 1
WA8MGJ 60- 10- 3- 1
K8JZN 20- 10- 1- 1
WB8EXZ (WB8s ADF CFO
OUQ WN8s MMF QNE)
28,050- 285-50-24
WA8ZNC (+WB8s ITV ITW
WN8PKR)

21,318- 209-51-24

West Virginia

WB8LPF 67,050- 447-75-20
WA8UUY 31,440- 262-60- 8

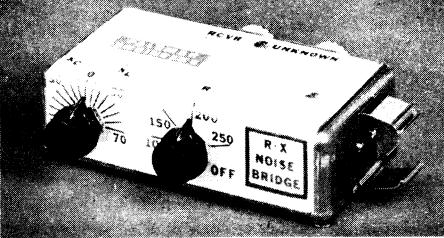
K8QYG 2- 1- 1- 1

9

Illinois

WB9DOB 154,586-1047-74-24
WB9HAD 108,000- 723-75-20
WB9VBU 103,514- 710-73-19
WB9GAM 75,757- 537-71-21
WB9JCO 73,657- 505-73-18
WB9LVJ 73,168- 538-68-17
WB9QXO 72,576- 506-72-23
WB9APC 60,878- 499-61-15
WB9ELV 48,348- 474-51-18
WB9CPT 41,064- 354-58-14
K9KWK 37,448- 302-62-13
WB9MVL 36,075- 278-65-
WB9BLP 33,372- 309-54-11
WB9DED 29,241- 257-57- 8
WB9BDF 29,184- 257-57-19
K9FEH 22,072- 178-62-14
WB9INQ 12,052- 131-46-14
WB9DVQ 11,450- 115-50- 8
WA9MZS 10,578- 131-41-12
K9KKX 10,212- 111-46-13
K9DWK 6600- 100-33- 2

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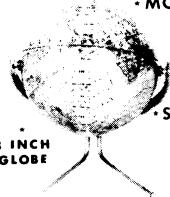
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 W9YH (WA9s LUD UGX VNJ
 WQA YLB WB9s AIH EYZ
 GOE GWO GWP NAW)
 101,850- 679-75-23

200 Watts or Less

WB9GFC 71,820- 513-70-21
 WA9SVZ 26,664- 202-66-12
 W9CQD 24,156- 198-61-22
 K9DKJ 22,265- 183-61-15
 WA9ZWY 16,320- 160-51-7
 WB9GSZ 15,510- 166-47-13
 W9LNO 15,194- 107-71-10
 WA8OB1/9 14,906- 129-58-15
 WB9IOG 13,600- 136-50-14
 WB9GLI 13,524- 148-46-7
 W9CRN 12,272- 104-59-11
 W9V9O 7875- 113-35-6
 W9REC 1344- 32-21-6
 W9LVH 1260- 30-21-1
 WB9HIB 408- 17-12-2
 W9HPG 260- 13-10-2
 W9ZPC 2- 1- 1- 1

WB9ESM WN9MFB
 39,712- 292-68-13
 K9BED (multiop)
 27,084- 222-61-23
 WB9JIC (+P. Zimick)
 3874- 75-26

Colorado

WA0CVS (WB9DJY, opr.)
 189,727-1300-73-24
 W0LBP 163,392-1105-74-23
 W0LJF (WB9AMJ, opr.)
 113,812- 769-74-20

K0TMM 103,608- 721-72-20
 WA0EGZ 86,832- 603-72-14
 WB0LLR 70,720- 520-68-11
 W0TP0 48,024- 348-69-17
 K0VFN 47,880- 380-63-12
 W0BWV 43,878- 309-71-16
 K0RQF 23,316- 202-58-13
 WB0DQJ 8862- 107-42-15

200 Watts or Less

W0QOUI (W5TFPS, opr.)
 51,068- 377-68-14
 WB0HHV 36,456- 294-62-23
 WB0GAZ 4836- 79-31-12
 WB0BLJ 3596- 62-29- 5
 WB0AET 2400- 48-25- 2
 WA0PYY 1950- 40-25- 6

Iowa

K0GXR 151,575-1012-75-22
 WA0TAQ 84,280- 602-70-20
 WA0ATY 7728- 92-42- 5
 W0IO (WB5IHK WA0ZOD)
 45,675- 365-63-14

200 Watts or Less

WB0CQO 35,508- 269-66-22
 WA3PWL/0 17,024- 152-56- 7
 WB0BPH 14,352- 156-46-12
 WA0TKK (WA0MHJ WB0s EIM KUJ)
 94,128- 641-74-24

Kansas

K0CVA 142,725- 953-75-23
 WB0BIY (WB9FCV, opr.)
 140,700- 940-75-24
 K0UYN 118,425- 790-75-23
 W0IUB 72,988- 516-71-
 WA0TKJ 65,392- 491-67- 8
 K0ROD 55,744- 416-67-23
 WB0GZR 33,536- 262-64-18
 WAI1LGG/0 5616- 72-39- 6
 W0QQQ (K3OWN WA0s SWC TAS WCO WB0s CUY DAV H. Kimball)
 19,080- 59-60-10

200 Watts or Less

WA9WUC 86,724- 594-73-19
 W9MDW 53,509- 368-73-20
 WB9MDB 36,010- 277-65-14
 WB9HZD 24,708- 213-58-19
 WA9SLU 6944- 125-28- 7
 K9HCK 2016- 42-24- 4
 K3YWJ/9 (+WB9MDJ)
 36,708- 266-69-14

W9CLY (WB9s DGU EQY
 WB0CRW)
 18,360- 170-54- 8

Wisconsin

W9YT (K9LBQ, opr.)
 193,288-1306-74-24
 W9RQM 105,192- 731-72-16
 WB9MOG 97,200- 675-72-21
 K9EYA 61,390- 441-70-18
 K9LWV 36,234- 275-66-17
 K9MIX 31,020- 259-60-17
 K9JPS 14,382- 153-47- 9
 WB9BGJ 14,200- 100-71-15
 W9ZHE 13,104- 126-52- 6
 W9NUW 9306- 99-47- 7
 W9KJ 4300- 50-43- 8

200 Watts or Less

K9HFR 40,256- 296-68-16
 W9GKJ 21,112- 183-58- 8
 WB9HZA 19,170- 213-45-19
 WB9HRP 17,388- 189-46-18
 W9CTI 8400- 107-40-12
 WB9EUN 6536- 88-38- 5
 W9LOM 5850- 73-39-10
 W9LQ 5655- 98-29- 4
 WB9EJE 5440- 85-33-12
 WA9YEC 2068- 49-22- 3
 WB9BWP 350- 18-10- 4
 W9DK (WA9s MCC SWX

WA0ENP 143,810- 991-73-23
 WA0RBW 115,776- 804-72-19
 WB0CJV 110,880- 770-72-20
 W0IYP 84,210- 604-70-13

Minnesota

K0IJL 82,209- 616-67-16
 K0CHE 74,620- 533-70-20
 WA0KQU 72,076- 488-74-16
 K9ZXE 65,000- 500-65-17
 WA0BWM 64,020- 485-66-10
 WB0BQA 54,208- 426-64-12
 WA0HJC 51,136- 400-64-17
 WA0VKP 44,022- 380-58- 6
 W0HW 36,000- 300-60-10
 WB0CLY 18,624- 194-48- 4
 W0TIV 9804- 114-43- 7
 WA0WOW 6080- 76-40-12

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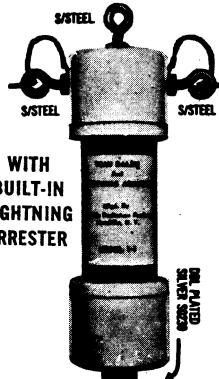
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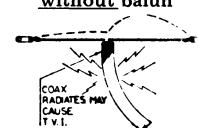
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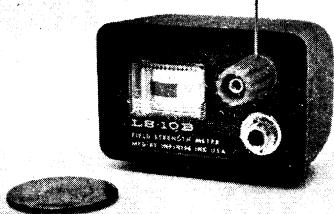
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WBØJBP (+WBØs EUB FTC

IPW)

25,368- 232-56-19

200 Watts or Less

WBØGBX 81,072- 567-72-21

WBØHCH 56,910- 410-70-

WBØCOL 22,960- 205-56-15

WAØDKA 10,948- 119-46- 6

WAØQNT 9282- 119-39- 7

WBØIRL 7480- 85-44- 6

WBØZX 6460- 86-38-10

KØZHD 6372- 91-36- 7

WBØEMI 4818- 73-33- 4

WBØOWY 2160- 45-24- 4

WAØQWY 1564- 33-24- 8

WAØVQX (+WAØs VEB WBG)

70,810- 485-73-21

Missouri

KØRPH 81,180- 616-66-15

WAØCWH 75,300- 502-75-24

KØVVF 73,152- 508-72-15

KØZHD 73,146- 501-73-22

WAØWOA 72,795- 530-69-17

WBØEZQ 72,432- 505-72-14

KØDEQ 58,616- 432-68-15

WBØELT 44,418- 337-66-

WAØEWS 28,294- 301-47- 5

WAØITM 3200- 30-32- 8

WBØEEE (WB9FSL WAØRAD

83,096- 613-68-20

200 Watts or Less

WBØWS 68,180- 487-70-22

WBØFLT 22,960- 205-56-22

KØFZT 12,240- 136-45- 5

WBØBV 1020- 30-17- 3

WBØJOR (WBØs IUM IUN

JQB)

41,741- 312-67-24

WAØQWW (WN7VMM WBØs BV

OTF WBØs HPA JJV JVG

LGZ)

16,470- 191-45-23

Nebraska

WAØRKQ 95,550- 637-75-22

WAØJCE 89,079- 647-69-17

WBØODF 26,460- 210-63-17

WBØK 22,814- 187-61-14

WBØINQ 17,898- 157-57- 9

WBØHBH 12,320- 140-44-14

WAØWHB (+WBØDIO)

46,068- 349-66-21

200 Watts or Less

WBØFTK 10,890- 99-55-11

WBØFTK 9116- 106-43- 8

North Dakota

WAØGQI 153,300-1023-75-21

200 Watts or Less

WBØIQK 6080- 80-38- 8

South Dakota

WBØGKE 129,975- 871-75-17

WBØWUU 5200- 65-40- 5

KØVVY (WAØs VKQ ZCE

WBØs DRO EMG)

151,552-1024-74-22

Check Logs

CW: VO1AW, W1PKW, WA3URV, (WB2NOM, opr.), K4EJO, W4RAL, K6AM, W6KPJ, K7KFE, W7SFA, W8MC, WB8HZO, K9DUA, W9KL, WN9LXU. PHONE: W1LXE/VE8, W3ZSR/4, W4ZC, WA6GEN, WA8REI, WB8LZR, W9KL.

Disqualifications

CW: WBØCJV. PHONE: WA8RWU (opr. of WA8ZDF), WBØANT, WØNUH.

Electronic Bias

(Continued from page 39)

fiers. One requirement is that there must be a source of positive voltage high enough to cut off plate current flow when applied to the cathode with the EBS in an off condition (no drive). This voltage should be fed to the cathode through a high-value resistor (100kΩ or so) and dropped, if necessary, to around 60 volts by voltage-divider action of another resistor, such as R4 in the EBS. It is not necessary that R3 be located on the EBS board. It could be from the cathode circuit to ground. Of course, these connections should be made on the side of the cathode (filament) choke away from the tube(s).

The EBS should be inserted in series with the cathode circuit at a point near ground, but toward the cathode from any metering shunts, to avoid metering errors. Terminal C should be toward the cathode, and terminal E toward ground.

Rf drive from the exciter should be fed to the EBS from a point ahead of the amplifier input tuning circuit, if any. It is well to have it attached to a point that is disconnected from the exciter when the amplifier is not in use.

In any event, an understanding of the operation of the EBS circuit and the cathode-bias circuit of the amplifier in question should enable one to determine if modification is practical and how to accomplish it.